OAK RIDGE RESERVATION CLEANUP CONTRACT – FINAL REQUEST FOR PROPOSAL AMENDMENT 2 TO SOLICITATION 89303319REM000047

The purpose of this amendment is to revise Solicitation No. 89303319REM000047 as described below, and to incorporate the changes in the conformed copy of the solicitation. All other sections of the Final RFP remain unchanged.

Amendment 0002 to Solicitation No. 89303319REM000047

RFP Section Reference	Amendment 2 Posting
Section C, Performance Work Statement	There are numerous, minor changes made throughout Section C, Performance Work
	Statement. See attached redlined Section C for changes from the Final RFP.
Section C, Attachment C-1, Facility and Site List	There are numerous, minor changes made throughout Section C, Attachment C-1
	Facility and Site List. See attached redlined Section C, Attachment C-1 for changes
	from the Final RFP.

Part I – The Schedule

Section C Performance Work Statement

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ORR CLEANUP CONTRACT OVERVIEW AND OBJECTIVES

Background

Since its inception in 1943, the U.S. Department of Energy (DOE) Oak Ridge Reservation (ORR)'s Y-12 National Security Complex (Y-12), Oak Ridge National Laboratory (ORNL), and East Tennessee Technology Park (ETTP) sites have supported a variety of DOE missions including weapons development and production, science and energy research, and isotope and nuclear fuel production. Today Y-12 and ORNL are enduring sites performing key DOE missions. Y-12, managed and operated by DOE's National Nuclear Security Administration (NNSA), processes and stores uranium to maintain the nation's nuclear stockpile and provide fuel for the U.S. Nuclear Navy. ORNL, managed and operated by DOE's Office of Science, is the nation's largest multi-program science and energy laboratory. As cleanup is completed, portions of ETTP are being transitioned to a commercial industrial park to support the regional economy.

Environmental liabilities from past DOE Oak Ridge activities remain to be addressed. To reduce risk, hundreds of excess contaminated facilities at Y-12 and ORNL must be demolished and sites with contaminated environmental media require remediation. Mercury is the prevalent legacy contaminant at Y-12, but beryllium, uranium, and other chemicals are also present. ORNL excess facilities are contaminated with a variety of radioactive isotopes, including transuranics, as well as other chemicals. Y-12 and ORNL also include DOE's Office of Environmental Management (EM) operating facilities that support waste treatment and disposal and environmental compliance. Upon completion of decontamination and demolition activities at ETTP, most of the site will be privately owned. However, DOE will retain responsibility for the remaining environmental media cleanup, post-closure monitoring and care, and historic preservation.

The mission of DOE's Oak Ridge Office of Environmental Management (OREM) is to complete cleanup of the ORR to protect the region's health and environment, make clean land available for future use, and enable vital DOE missions in science, energy, and national security. OREM's mission supports DOE strategic goals to advance America's sciences, energy security, and economic growth while minimizing the nation's environmental and national security threats.

Contract Purpose and Objectives

One of DOE's strategic goals is to clean up the nation's Manhattan Project and Cold War legacies in compliance with laws and regulations. To accomplish this goal, DOE must reduce its environmental liabilities through accelerated cleanup of high-risk areas, thereby reducing risk and financial liability and returning land for its projected future use. This will be accomplished in a manner that is protective of human health and the environment.

The purpose of the ORR Cleanup Contract is to achieve maximum measurable results in advancing environmental cleanup requirements on the ORR at the best value to the U.S. taxpayer. This Performance Work Statement (PWS) includes DOE's desired outcomes and related end states to progress towards ORR cleanup completion during the period of performance.

The Contractor is responsible for the performance of the scope under the Contract, including defining the specific methods, innovations, and graded approaches for accomplishing all work to be performed and managing, integrating, and executing work described in this PWS. DOE's goal is to optimize scope completion, cost, and schedule associated with performance of all work in compliance with all applicable requirements. The work often involves accessing classified information, up to and including Secret Restricted Data level and category and/or special nuclear material, both of which require access

authorizations (clearances). Therefore, the Contractor must possess a facility clearance before access authorizations may be granted.

The Contractor shall comply with the Federal Facility Agreement (FFA); the Oak Ridge Reservation Site Treatment Plan; approved Records of Decision (RODs) and other Comprehensive Environmental Response, Compensation, and Liability Act of 1980, (CERCLA) as amended (CERCLA) decision documents; and other applicable regulatory requirements. Hazardous Waste Operations and Emergency Response (HAZWOPER) requirements apply to certain facilities/areas as specified in 29 *Code of Federal Regulations (CFR)* 1910.120.

Accelerated cleanup (i.e., accomplishing cleanup faster and more efficiently than planned) is a cooperative undertaking that requires the Contractor and the Government to seek innovative approaches to achieve the end states. Streamlining processes, eliminating non-value-added requirements, and identifying efficiencies and performance improvements are critical to accomplishing accelerated cleanup. The Contractor shall, throughout the Contract period of performance, seek to reduce non-value-added requirements and processes that impede progress and identify efficiencies and performance improvements that reduce the actual cost and/or improve the schedule for the work.

Description of Performance Requirements

Scope Summary and Work Authorization

The overall scope of this Contract includes the following:

- (a) **Transition:** Transition includes activities for the incoming transition from the ETTP Cleanup Contract to the ORR Cleanup Contract and the outgoing transition to the follow-on contractor.
- (b) **Cleanup:** Cleanup of the ORR encompasses preparation for demolition and/or demolition of numerous facilities and remediation of environmental media at ETTP, ORNL, and Y-12. Cleanup includes disposal of all associated wastes. <u>Cleanup includes improvements (e.g., repairs, stabilization, upgrades)</u> for facilities planned for future use or historic preservation.
- (c) Construction and/or Startup of Mission Support Facilities: Complete Phase 1 construction and initiate operation of the Environmental Management Disposal Facility (EMDF), and complete commissioning of the Outfall 200 Mercury Treatment Facility (MTF) at Y-12.

(d) **Operations:**

- (1) Liquid and Gaseous Waste Operations (LGWO): Operate and maintain LGWO facilities to dispose of ORNL and OREM liquid and gaseous wastes and ensure reliability of these essential systems and services.
- (2) Transuranic and Solid Waste Debris Storage and Shipment Support: Manage OREM's remaining transuranic (TRU) and legacy waste inventory and support shipments to the Waste Isolation Pilot Plant (WIPP)-) or other offsite disposal facilities.
- (3) Surveillance and Maintenance of EM-ownedFacilities and Sites at ORNL₂ and Y-12 under EM responsibility: Maintain OREM's excess contaminated facilities and sites to ensure a safe and stable condition that minimizes risks pending facility demolition, and/or site remediation, and/or transfer.
- (4) CERCLA Disposal Facilities and ORR Landfills: Operate and maintain disposal facilities to ensure efficient disposal of cleanup debris and other wastes.

- (5) Outfall 200 MTF Operations: Operate and maintain the newly constructed MTF to reduce mercury contamination in Y-12 surface waters. <u>Additional use of the facility to treat other waters</u> may be considered by DOE in the future.
- (6) ETTP Site Closure, Historic Preservation, <u>Surveillance and Maintenenance, and Environmental Monitoring</u>: Complete closure of ETTP as a DOE site and implement <u>surveillance and maintenenance</u>, <u>and environmental monitoring responsibilities</u>. Complete historic preservation commitments.

The scope in the PWS will be authorized by Task Orders that will be defined and individually negotiated before and/or during the Contract period of performance.

The Contractor is responsible for managing, integrating, and executing the work described in this PWS as authorized through Task Orders. The Contractor shall provide all personnel, facilities (office space, change houses, etc.), equipment, materials, services, and supplies required to complete the Contract work scope, except for the items identified as government-furnished services and information as described in Section J, Attachment J-8, *Government-Furnished Services and Information*. The permanent duty station for employees and subcontractors who are permanently assigned to this Contract is located on the Oak Ridge Reservation or in Oak Ridge, TN.

The ORR Cleanup Contract scope contains both capital and non-capital asset acquisition projects and activities. The Contractor shall be responsible for the integration and management of all projects and subprojects. The Contractor shall maximize efficient and cost-effective methods for completing the work scope. The Contractor shall be the single point of accountability for the ORR Cleanup Contract activities, safety and quality assurance programs, interface with ORNL and Y-12 site contractors, and project management in the performance of this Contract, including any subcontracts. The Contractor shall develop a regulatory approach for all work under this Contract and ensure regulatory approval is obtained for any related changes to regulatory requirements prior to their execution.

Some of the facilities included in this ORR Cleanup Contract scope may currently be the responsibility of DOE program offices other than EM and/or other contractors, including but not limited to the facilities identified in Attachment C-1, *Facility and Site List*. The Contractor shall support transfer and/or accept operational responsibility for these facilities to support execution of the work. Likewise, certain facilities currently included in the Contract scope may be transferred to other DOE program offices. The Contractor will be performing Contract scope in environments where other DOE contractors are engaged in activities that are not controlled by the Contractor's programs and procedures (e.g., work planning and control, safety and health). The Contractor shall develop interface documents with other DOE contractors, as needed, to support transition, stipulate respective roles and responsibilities, and define services to be provided by other DOE contractors. Interfaces and roles and responsibilities are summarized in Section J, Attachment J-3, *Site Services and Interface Requirements*. The Contractor shall interact in such a way as to avoid or minimize impacts to the successful performance of the scope under the Contract and to programmatic site mission operations and activities.

In the performance of this Contract, the Contractor shall comply with all applicable laws, regulations, permits, and DOE Directives (including invoked Technical Standards), including but not limited to those identified in Section J, Attachment J-2, *Requirements Sources and Implementing Documents*. The Contractor shall also comply with all CERCLA decision documents in effect for the ORR while conducting the authorized scope of work.

The Contractor shall support OREM in achieving its goals, as described in the DOE Office of Environmental Management Annual Performance Agreement in effect during the period of performance.

C.1 Contract Transition

C.1.1 Incoming Transition

The contract transition period is estimated to be 90 days. The first day of the Transition Period will be the effective date of the transition task order. DOE will issue a Notice to Proceed, identifying the effective date of the transition task order. During the transition period, the Contractor shall perform those activities that are necessary to transition work from the previous ETTP contractor in a manner that: (1) ensures that all work for which the Contractor is responsible under the contract is continued without disruption; (2) provides for an orderly transfer of resources, responsibilities, and accountability from the previous contractor; and (3) provides for the ability of the Contractor to perform the work in an efficient, effective, and safe manner. Workforce transition shall be managed in accordance with the requirements of applicable Section H Contractor Human Resource Management clauses.

The Contractor shall establish the necessary logistical support (office space, computers, telephone, etc.) to execute the 90-day transition period (estimated) and shall ensure all necessary personnel, including key personnel for the Contractor, are available during the transition period, unless specifically directed otherwise by the Contracting Officer (CO). All key personnel shall be assigned full-time to their respective positions and shall meet the requirements detailed in Section H.44, Key Personnel.

The desired outcome is the readiness to assume full responsibility for OREM facilities and activities for execution of subsequent Task Orders upon direction by the CO.

As authorized by Task Order 1, the Contractor shall perform the activities necessary to declare readiness to assume responsibility for the following:

- Facilities, activities and in-process work documented in Task Order 2
- Incumbent contractor's subcontracted work as deemed necessary
- Workforce in accordance with the requirements of Section H of this Contract

Within 15 days after a Notice to Proceed, the Contractor shall submit a Transition Plan for DOE approval that provides sufficient detail for all transition activities, including but not limited to: a description of all necessary transition activities; a list of the organizations involved; a transition spend plan and a transition schedule, including key milestones; earned value reporting during transition; Memoranda of Understanding (MOUs) with outside organizations; required utilities; and other transition activities such as acquisition of necessary equipment, hiring and training of personnel, and development or revisions of required plans and procedures. The Contractor is responsible for performing due diligence to ensure that all transition activities are identified and completed during the transition period (see Task Order 1, Section J, Attachment J-7, Contract Deliverables).

The list below includes the major elements necessary for transition of the Contract, but does not include all transition requirements. The following items shall be addressed in the Transition Plan:

- (a) **Public Release Statement:** Within 72 hours following the effective date of the Contract Transition Task Order, the Contractor shall release on its own website a brief Executive Summary of its offer including the following elements:
 - (1) Name of Contractor including the identification of teaming partners and subcontractors, and a description of the experience that each party brings to the project
 - (2) Summary/description of Contractor's management approach
 - (3) Organizational structure and identification of key personnel

- (4) Contractor performance commitments
- (5) Brief overview of Contractor's work on similar projects
- (6) Commitments to the community
- (7) Commitments to small business subcontracting (if applicable)
- (b) **Implementation of Human Resources Management Requirements:** The Contractor's Transition Plan required above shall include a description of the Contractor's implementation of human resource management consistent with requirements as described in Section H, clauses H.4 through H.7, including:
 - (1) Expected workforce composition and any immediate or anticipated workforce restructuring
 - (2) Identification of any existing issues under the National Labor Relations Act and the Contractor's plan for engaging with labor representatives
 - (3) A schedule for preparation and submission of any bargaining parameters requests
 - (4) Identification of any prevailing wage requirements, including requirements under Section 4(c) of the Service Contract Labor Standards statute as well as National Labor Relations Act requirements regarding determination of wages and benefits
 - (5) Descriptions of processes for handling labor standards determinations for work packages
 - (6) Definition of obligations regarding pension and post-retirement benefit plans
 - (7) A plan for identification and resolution of any legal issues regarding the above, including the Contractor's plan for engaging outside counsel as needed
 - (8) A plan for communicating and engaging with DOE on these matters
- (c) **Inter-contractor Ordering and Financial Agreements:** The Contractor shall develop the inter-contractor ordering and financial agreements necessary to support transition and Contract performance, and will be responsible for the costs incurred under these agreements.
- (d) **Programs and Procedures:** To ensure continuity of operations, the Contractor may adopt, as applicable, the incumbent contractors' programs and procedures at the effective date of the transition task order (e.g., Safety Analysis Reports (SAR)Documented Safety Analysis (DSA), Technical Safety Requirements (TSR), operating procedures, etc.), provided the Contractor has formally reviewed the programs and procedures to ensure compliance with contract requirements, current regulatory requirements, DOE Orders and directives, and the Contractors' organizational roles and responsibilities. The Contractor shall revise those programs and procedures it deems necessary, provided the programs and procedures remain in compliance with DOE requirements, and shall maintain its plans, procedures, programs, etc. in accordance with this PWS. Any Programs and Procedures that are adopted shall be updated to the new Contractor's organization within the first year of the effective date of the contract.
- (e) **Status Reports Transition Activities:** The Contractor shall provide weekly status reports of transition activities to DOE. The Contractor shall establish routine status meetings with DOE and affected contractors to review transition activities and issues (see Task Order 1, Section J, Attachment J-7, *Contract Deliverables*).
- (f) **Government-owned Property:** All real and personal property currently accountable to the incumbent contractor for contract performance will be provided to the Contractor. During the

transition period, an inventory record of such property in the DOE Facilities Information Management System (FIMS) and the incumbent contractor's personal property databases will be provided to the Contractor. Specifically, the following property acceptance requirements will be implemented:

- (1) The Contractor shall perform a joint comprehensive physical inventory with the incumbent contractor of all accountable high-risk and sensitive property, as defined in *CFR* Title 41, Chapter 109, during the transition period, and shall accept full accountability for the high-risk and sensitive property at the end of transition.
- (2) At the end of transition, the Contractor shall accept transfer of accountability for the remaining government-owned real and personal property not covered under paragraph (1), based on existing inventory records on an as-is, where-is basis, or shall perform a wall-to-wall inventory within the transition period of the Contract. At the discretion of the Contractor, a review of existing inventory records may be performed during transition. Any discrepancies with the existing inventory records shall be reported to the CO. If the physical inventory is not accomplished within the allotted time frame, the previous contractor's records will become the inventory baseline.
- (3) Once the Standard Form 122, *Transfer Order Excess Personal Property*, is completed and approved by the CO/Organizational Property Management Officer, the Contractor shall assume responsibility and liability for subsequent losses and damages.
- (g) **DOE Safeguards and Security (S&S) Survey:** During the transition period and prior to assuming control and responsibility for S&S responsibilities, the Contractor shall be subject to a DOE S&S initial survey conducted in accordance with DOE Order 470.4, *Safeguards and Security Program*. The results of the survey shall be documented and shall form the basis for DOE authorization to assume S&S responsibilities, in particular responsibility for special nuclear material. Following a satisfactory survey and upon CO direction, the Contractor shall assume responsibility for all applicable S&S resources, materials, facilities, documents, and equipment.
- (h) **Legal Management Transition:** The Contractor shall ensure all legal management activities are addressed pursuant to the Section H clause *Legal Management* and 10 *CFR* Part 719.
- (i) **Communication of Contractor's Approach:** The Contractor shall communicate its approach and commitments for accomplishing the scope of the Contract to workers, federal staff, stakeholders, and other interested entities during the transition period.
- (j) **Graded Approach:** The Contractor shall submit a Graded Approach for Implementation of Contract Requirements Plan for DOE approval to streamline processes, apply a graded approach, and identify efficiencies and performance improvements (e.g., DOE directives, regulations, and others) that are critical to accomplishing the site mission. The plan shall include a review and recommendations of changes to the current site standards and implementing procedures for eliminating requirements and/or streamlining processes. The Contractor shall interface with the other site contractors on proposed changes, as necessary.
- (k) **Task Order Proposals:** During transition, DOE will request Task Order proposals that are compliant with Federal Acquisition Regulation Subpart 15.4 (see Task Order 1, Section J, Attachment J-7, *Contract Deliverables*). The CO will provide direction as applicable regarding these Task Orders.
- (1) Design Authority:

- (1) The Contractor shall review the preliminary EMDF design with the incumbent contractor such that the Contractor assumes Design Authority responsibilities at the conclusion of the transition period.
- (2) The Contractor shall review the final DOE-approved design for the Outfall 200 MTF, approved design changes, and construction progress with the incumbent contractor such that the Contractor assumes Design Authority responsibilities at the conclusion of the transition period.
- The Contractor shall review the design for ETTP Historic Preservation requirements per the approved Memorandum of Understanding with the incumbent contractor such that the Contractor assumes Design Authority responsibilities at the conclusion of the transition period.
- (m) Declaration of Readiness: The Contractor shall submit a Declaration of Readiness to Execute the Contract to the CO, prior to the end of transition, that indicates the Contractor's readiness to assume responsibility for execution of the Contract upon CO direction. The Contractor shall also identify any post-transition activities that are required to be completed (e.g., notifications to outside agencies of transfer of co-operator responsibilities, completion of procedure updates).

C.1.2 Outgoing Transition and Closeout

The desired outcome is a seamless transition of full responsibility for OREM facilities and activities to a successor contractor.

As authorized by Task Order, the Contractor shall perform those activities necessary to transition the work under this Contract to a successor contractor upon contract expiration:

- Cooperate with the incoming contractor to ensure all work for which the Contractor is responsible under the Contract continues without disruption in an efficient, effective, and safe manner.
- Provide for an orderly transfer of resources, responsibilities, and accountability from the Contractor.

The Contractor shall provide a plan for closeout activities at least 60 days prior to Contract expiration or when directed by the CO. The Contractor shall also cooperate with and support the successor contractor's phase-in plan.

C.2 Post-Retirement Medical Benefits, Long-Term Disability, and Pension **Contribution**

As authorized by Task Order, the Contractor shall:

- Fund the post-retirement medical benefits for ORR EM workers retiring prior to April 1, 1998 in coordination with the NNSA Management and Operating (M&O) contractor at Y-12.
- Manage and fund the post-retirement medical benefits for ORR EM workers retiring on or after April 1, 1998.
- Manage and fund the long-term disability program for all ORR EM workers.

In addition, the Contractor shall manage and fund the pension plan for Grandfathered Employees.

C.3 Cleanup

The desired outcome is maximized completion of end-states for excess contaminated facilities and/or remediation of environmental media at Y-12, ORNL, and ETTP in a safe, efficient, and compliant manner in accordance with approved regulatory documents and DOE Directive requirements. Completion of endstates shall maximize reduction of environmental liabilities and related risks. Desired outcomes for the

cleanup scope (listed in C.3.1, C.3.2, and C.3.3) are expressed in terms of completion of some or all of the following cleanup end states:

Characterization

The desired outcome of this end state is a characterized facility with approved documentation (e.g., data quality objectives [DQOs], sampling and analysis plans, quality assurance plan, and waste handling plan) pursuant to the FFA. The Contractor shall mobilize personnel and equipment and establish access controls. The Contractor shall ensure worker and environmental safety and health through monitoring and protection.

Characterization work includes, but is not limited to the following activities as necessary or required:

- DQO preparation for the specific waste streams in accordance with U.S. Environmental Protection Agency (EPA) QA/G-4 (EPA/600/R-96/055) guidance or equivalent as required by DOE Order 435.1
 - Identifying and evaluating historical documents and conducting interviews, as necessary, to develop documentation in support of process knowledge to support sampling decisions
 - Presenting the DQO, including proposed sampling methods and locations, to Potential Responsible Parties or appropriate stakeholders and obtaining agreement
- Developing project-specific sampling and analysis plans and quality assurance plans to document agreed-upon sampling methods and locations (via the DQO sessions) for the specific waste streams
 - Preparing sampling and analysis plans in accordance with approved DQOs, EPA protocols, and approved FFA documentation
 - Ensuring the sampling and analysis plans describe a phased approach for collecting data to satisfy the waste acceptance criteria (WAC) of the intended disposal facility
- Preparing the project-specific waste handling plan for pre-demolition and demolition waste
- Collecting random and biased (as needed) physical, structural, debris, soil, and slab samples using standard EPA protocols for sample collection methodologies and analytical test methods as specified in EPA Guidance SW-846, Test Methods for Evaluating Solid Waste: Physical/ Chemical Methods
- Performing surface scans and direct measurements to support radiological safety or characterization requirements as applicable
- Ensuring all commitments are completed as specified in applicable EPA and FFA protocols and approved documentation
- Performing a data quality assessment briefing with DOE to demonstrate that sample analytical results meet WAC for the intended disposal facility
- Ensuring that sample analytical results are properly formatted to allow direct transfer into DOE
 data management systems such as Oak Ridge Environmental Information System (OREIS),
 Project Environmental Measurements System (PEMS), and others
- Performing and coordinating field oversight and field technical support associated with characterization activities

Preparation for Demolition

The desired outcome of this end state is a facility ready for demolition that no longer requires regular personnel access (i.e., condemned with no further entry authorized). Preparation for demolition activities

should be conducted in accordance with standard industry practices and should include the compliant disposition of all wastes generated.

Preparation for demolition work includes, but is not limited to the following activities as necessary or required:

- Mobilization of personnel and equipment and establishment of access controls
- Develop and submit to DOE applicable regulatory documents in accordance with the FFA and applicable recordations and/or other mitigating actions in accordance with National Historic Preservation Act requirements
- Ongoing characterization to ensure protection of worker health and safety
- Review/revise safety basis documentation as required to support activities
- Worker and environment safety and health, monitoring, and protection equipment and plans
- Removal of legacy material
- Deactivation and isolation of utility systems
- Abatement, removal, and disposition of hazardous materials (e.g., fluids, asbestos, universal wastes, and other Resource Conservation and Recovery Act [RCRA] wastes)
- Stabilization of pipes, ducts, and equipment including venting, purging, and draining
- Decontamination or stabilization of surface contaminants (e.g., mercury in walls may require stabilization or passive extraction prior to demolition, beryllium may be stabilized with a fixative prior to invasive work, and radioactive contamination may be managed with a fixative spray)
- Removal and disposal of process equipment
- Ensuring proper management and disposal of any classified information, material, equipment, or waste
- Preparation of Critical Decision (CD) documentation to obtain DOE approvals as required by DOE Order 413.3 prior to initiating demolition; the Contractor shall define a sound engineering approach to demolition and waste management in order to develop a defensible baseline and obtain funding approval.

Demolition

The desired outcome of this end state is a facility footprint cleared, stabilized, and prepared for subsequent environmental media remediation or future use. Demolition includes the disposition of all wastes generated during these activities.

The Contractor shall complete facility demolition in a safe and environmentally sound manner and in accordance with DOE and other regulatory requirements. Facility demolition activities include, but are not limited to:

- Mobilization of personnel and equipment and establishment of access controls
- Implementation of plans and procedures for worker and environmental safety and health, monitoring, and protective equipment
- Review/revise safety basis documentation as required to support activities
- Waste segregation and packaging
- Hazardous and radioactive contaminant control throughout decontamination and demolition, packaging, and disposal activities
- Removal and disposition of structural, non-friable asbestos (e.g., transite siding)

- Preparations for decontamination, dust suppression, and stormwater runoff and containment
- Preparations and protection of surrounding environmental media during building demolition (e.g., protection of soils from releases of mercury during building demolition)
- Capture, storage, and treatment of contaminated contact water (e.g., decontamination fluids, stormwater that contacts waste or debris and becomes contaminated)
- Completion of necessary characterization to determine whether remediation of soils under the building and/or other subsurface structures is required prior to slab removal
- Demolition of structures
- Demolition and/or stabilization of below-ground piping, vaults, foundations, and other structures
- Removal of building slabs; however, DOE may determine that the slabs should remain for a future remedial action prior to removal
- Size reduction and segregation of demolition material, if necessary
- Site stabilization and decontamination and stabilization of any remaining building slabs in accordance with regulatory agreements
- Preparation of the required waste profiles, transportation documentation, and any other required documents to allow for waste treatment, storage, or final disposal
- Loading, hauling, and disposition of all materials and debris in accordance with the DOEapproved Waste Management Program Plan's waste disposition hierarchy
- Removal and demobilization of site operations, support facilities, fencing, and equipment
- Submission of required <u>critical decision documentation per</u> DOE Order 413.3, <u>and</u> regulatory progress and completion documents, and FIMS updates

Opportunities exist to reduce the cost and/or risk presented by facility demolition. Careful planning and execution should be performed to minimize the generation of contaminated waste (e.g., mercury).

The Contractor shall apply lessons learned from across the DOE Complex when considering open air demolition methods to ensure proper controls are implemented for protecting human health and the environment, complying with applicable regulations, and preventing the spread of contamination. This is particularly important as certain facilities are contaminated with highly mobile hazardous contaminants (e.g., beryllium, mercury, transuranics) and demolition will take place on operating Y-12 and ORNL sites in close proximity to mission critical facilities and activities with personnel not otherwise related to the Contractor's activities.

Management and treatment of stormwater, contaminated water, and dust suppression water during demolition activities may be required; this could be provided by the Outfall 200 MTF, ORNL LGWO, and/or other water management and treatment systems. Suppression of the groundwater table during demolition should be considered, as necessary. The Contractor shall plan for proper control of hazardous and radioactive contaminants.

The Contractor shall plan and obtain DOE and regulatory approval of work plans, waste disposal paths and decisions regarding disposition of building slabs.

Environmental Media Remediation

The desired outcome for this end state is remediated soil or water that meets regulatory requirements and enables transfer of remediated areas for reuse. Environmental media remediation may include removal or stabilization of slabs and subsurface structures and ancillary above-grade structures (as determined by DOE); soil treatment; soil excavation and disposal; and surface and groundwater monitoring and/or

treatment systems in accordance with approved regulatory decision documents. Characterization of soils, subsurface structures, and other environmental media should be completed to determine and support approvals of disposition paths. Prior characterization may have been completed in some instances. Existing data should be evaluated to determine data gaps that will be addressed through limited characterization during these activities. Characterization results shall be documented in a Technical Memorandum or other document, as required by the FFA or other agreement.

The scope includes DQO meetings between DOE and the regulatory parties to determine the characterization data requirements, the media sampling and analysis plan, and the quality assurance project plan. The FFA primary documents (i.e., remedial action work plan and waste handling plan) remediation data shall be archived in the OREIS database as required by the FFA.

Excavated contaminated soils should be disposed of in the most cost-effective manner feasible after consideration and selection of treatment and/or disposal options in accordance with the DOE-approved Waste Management Program Plan's waste disposition hierarchy. The accumulation of stormwater within excavated areas should be avoided (e.g., by filling in areas as soon as practicable). Groundwater seepage and any collected stormwater from excavated areas should be sampled for contamination and, depending on sampling results, managed per applicable regulatory requirements.

Isolation technologies may offer comparable environmental protection at lower cost and should be evaluated and implemented as appropriate. The Contractor shall obtain the necessary regulatory approvals in the treatment decision-making process, during the development of waste handing plans, and regarding design parameters for soil and sediment remedial actions.

C.3.1 ORNL Cleanup

As authorized by Task Order, the Contractor shall perform cleanup (characterization, preparation for demolition, demolition, and environmental media remediation) including but not limited to the ORNL facilities, complexes, and areas listed below. Cleanup shall be performed in accordance with the following regulatory documents, as applicable, and may be modified by subsequent regulatory agreements or requirements.

- Record of Decision for Interim Actions in Bethel Valley, Oak Ridge, Tennessee (DOE/OR/01-1862&D4)
- Record of Decision for Interim Actions for the Melton Valley Watershed at the Oak Ridge National Laboratory, Oak Ridge, Tennessee (DOE/OR/01-1826&D3)
- Record of Decision for Interim Action to Remove Fuel and Flush Salts from the Molten Salt Reactor Experiment Facility at the Oak Ridge National Laboratory, Oak Ridge, Tennessee (DOE/OR/02-1671&D2)

For additional details, refer to Table 1 of Attachment C-1, Facility and Site List.

C.3.1.1 3026 Hot Cells

The 3026 Hot Cells area is administratively separated into two sections: 3026-C and 3026-D. Two concrete pedestals remain on the 3026-C slab; the slab and pedestals will be removed as part of environmental media remediation. Two hot cell structures remain on the 3026-D slab: the Storage and Sorting Cell and the East Cell Bank. The desired outcome is demolition of the 3026-D hot cell structures to the slab with the footprint cleared and the slab stabilized and prepared for subsequent environmental media remediation or future use. This cleanup will be accomplished through the following end states, as described in Section C.3:

C.3.1.1.1 3026 – Characterization

- C.3.1.1.2 3026 Preparation for Demolition
- C.3.1.1.3 3026 Demolition

C.3.1.2 3038 Facility

The desired outcome is demolition of the 3038 Radioisotope Laboratory, including hot cells, with a footprint cleared, stabilized, and prepared for subsequent environmental media remediation or future use. This cleanup will be accomplished through the following end states, as described in Section C.3:

- C.3.1.2.1 3038 Characterization
- C.3.1.2.2 3038 Preparation for Demolition
- C.3.1.2.3 3038 Demolition

C.3.1.3 Bethel Valley Isotopes Area Facilities

The Bethel Valley Isotopes Area Facilities (also known as Isotope Circle) include the following facilities and structures:

- Building 3029, Radioisotope Production Laboratory-B
- Building 3030, Radioisotope Production Laboratory-C
- Building 3031, Radioisotope Production Laboratory-D
- Building 3032, Radioisotope Production Laboratory-E
- Building 3033, Radioisotope Production Laboratory-F
- Building 3033A, Radioisotope Production Laboratory Annex
- Building 3034, Radioisotope Area Services
- Building 3036, Isotope Area Storage and Service Building
- Facility 3093, Storage Cubicle for Krypton
- 3099 Storage Pad for Buildings 3031 and 30323109 Pressurized Off-gas System Filter Pit
- 3110 Isotopes Filter House
- Building 3118, Radioisotope Production Laboratory-H
- 3126 Normal Off-gas System Charcoal Filter Pit
- 3139 Cell Ventilation Filters

The desired outcome for the Bethel Valley Isotopes Area Facilities is demolition of all facilities with footprints cleared, stabilized, and prepared for subsequent environmental media remediation or future use. This cleanup will be accomplished through the following end states, as described in Section C.3:

- C.3.1.3.1 Isotopes Area Characterization
- C.3.1.3.2 Isotopes Area Preparation for Demolition
- C.3.1.3.3 Isotopes Area Demolition

C.3.1.4 Graphite Reactor Historic Preservation

The Graphite Reactor includes the following facilities and structures:

- Building 3001, Graphite Reactor (to be stabilized only, see below)
- Underground Exhaust Ducts (for Buildings 3001, 3002, and 3003) (to be stabilized in place)

The Oak Ridge Graphite Reactor is a National Historic Landmark and is part of the Manhattan Project National Historical Park. The desired outcome is for the Graphite Reactor and associated underground exhaust duets to be stabilized in place for historic preservation (not demolished). Stabilization scope includes characterization, abatement of hazardous materials and radiological contamination, and stabilization to enable public access as a museum facility. All activities conducted in the Graphite Reactor require careful coordination with DOE, the National Park Service, and the Tennessee State Historic Preservation Officer.

C.3.1.5 Graphite Reactor Support Facilities

The Graphite Reactor Support Facilities include the following facilities and structures:

- Building 3002, Filter House for Graphite Reactor
- Building 3003, Solid State Accelerator Facility
- Building 3018, Cell Ventilation and Off-gas Exchange Stack

The desired outcome for the Graphite Reactor Support Facilities is demolition of all facilities with footprints cleared, stabilized, and prepared for subsequent environmental media remediation or future use. This cleanup will be accomplished through the following end states, as described in Section C.3:

- C.3.1.5.1 Graphite Reactor Support Characterization
- C.3.1.5.2 Graphite Reactor Support Preparation for Demolition
- C.3.1.5.3 Graphite Reactor Support Demolition

C.3.1.6 Bethel Valley Bulk Shielding and Low Intensity Test Reactors Complex

The Bethel Valley Bulk Shielding and Low Intensity Test Reactors Complex includes the following facilities and structures:

- Building 3005, Low Intensity Test Reactor Facility
- Building 3009, Pump House for Building 3010
- Building 3010, Bulk Shielding Reactor
- Building 3010A, Bulk Shielding Reactor Annex
- Building 3080, Reactor Experiment Control Room
- Building 3083, Neutron Spectrometer Station 1 and Neutron Flight Tube
- Building 3107, 25-meter Target House

The desired outcome for the Bethel Valley Bulk Shielding and Low Intensity Test Reactors Complex is demolition of all facilities with footprints cleared, stabilized, and prepared for subsequent environmental media remediation or future use. This cleanup will be accomplished through the following end states, as described in Section C.3:

- C.3.1.6.1 Bulk Shielding and Low Intensity Test Reactor Characterization
- C.3.1.6.2 Bulk Shielding and Low Intensity Test Reactor Preparation for Demolition
- C.3.1.6.3 Bulk Shielding and Low Intensity Test Reactor Demolition

C.3.1.7 Oak Ridge Research Reactor Facilities

The Oak Ridge Research Reactor Facilities include the following facilities and structures:

• Building 3042, Oak Ridge Research Reactor

Building 3107, 25-meter Target House

The desired outcome for the Oak Ridge Research Reactor Facilities is demolition of all facilities with footprints cleared, stabilized, and prepared for subsequent environmental media remediation or future use. This cleanup will be accomplished through the following end states, as described in Section C.3:

- C.3.1.7.1 Oak Ridge Research Reactor Characterization
- C.3.1.7.2 Oak Ridge Research Reactor Preparation for Demolition
- C.3.1.7.3 Oak Ridge Research Reactor Demolition

C.3.1.8 3028 Facility

The desired outcome is demolition of the 3028 Radioisotope Production Laboratory and associated hot cells with a footprint cleared, stabilized, and prepared for subsequent environmental media remediation or future use. This cleanup will be accomplished via the following end states, as described in Section C.3:

- C.3.1.8.1 3028 Characterization
- C.3.1.8.2 3028 Preparation for Demolition
- C.3.1.8.3 3028 Demolition

C.3.1.9 Bethel Valley Chemical Development Lab Facilities

The Bethel Valley Chemical Development Lab Facilities include the following structures:

- Building 4507, High Level Chemical Development Laboratory
- Building 4556, Filter Pit for Building 4507

The desired outcome for the Bethel Valley Chemical Development Lab Facilities is demolition of all facilities with footprints cleared, stabilized, and prepared for subsequent environmental media remediation or future use. This cleanup will be accomplished through the following end states, as described in Section C.3:

- C.3.1.9.1 Chemical Development Lab Characterization
- C.3.1.9.2 Chemical Development Lab Preparation for Demolition
- C.3.1.9.3 Chemical Development Lab Demolition

C.3.1.10 3515 Facility

The desired outcome is demolition of the 3515 Fission Product Pilot Plant with a footprint cleared, stabilized, and prepared for subsequent environmental media remediation or future use. This cleanup will be accomplished through the following end states, as described in Section C.3:

- C.3.1.10.1 3515 Characterization
- C.3.1.10.2 3515 Preparation for Demolition
- C.3.1.10.3 3515 Demolition

C.3.1.11 3517 and Support Facilities

The 3517 and Support Facilities include the following facilities and structures:

- Building 3517, Fission Product Development Laboratory
- 3505-T1, Caustic Storage Tank (3505A)
- 3505-T2, Acid Storage Tank (3505B)
- Building 3542, Storage Building for Buildings 3505 and 3517

- 3547, Cell Ventilation Roughing Filter for 3517
- 3548, Cell Ventilation Filters for 3517
- Building 3623, Flanders Filter House for Building 3517
- Building 3624, Flammable Storage for Building 3517
- K4489, Cooling Tower at 3517

The desired outcome for the 3517 and Support Facilities is demolition of all facilities with footprints cleared and stabilized (including below ground pipe tunnels and tank cell vaults; buildings will be demolished, including the foundation of the facilities, and soil will be removed to two feet below grade; some below-grade structures will have contents removed and will be grouted in place), and prepared for subsequent environmental media remediation or future use. This cleanup will be accomplished through the following end states, as described in Section C.3:

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C.3.1.11.1 3517 – Characterization
C.3.1.11.2 3517 – Preparation for Demolition
C.3.1.11.3 3517 – Demolition
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C.3.1.12 7500 Complex

The 7500 Complex includes the following facilities and structures:

- Building 7500, Homogeneous Reactor Experiment
- 7560, Liquid Low-level Radioactive Waste (LLLW) Condensate Tank for 7500
- 7562, LLLW Collection and Storage Tank for 7500

The desired outcome for the 7500 Complex is demolition of all facilities with footprints cleared, and stabilized, and completion of environmental media remediation and prepared for subsequent environmental media remediation or future use. This cleanup will be accomplished through the following end states, as described in Section C.3:

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C.3.1.12.1 7500 <u>Complex</u> – Characterization
C.3.1.12.2 7500 <u>Complex</u> – Preparation for Demolition
C.3.1.12.3 7500 <u>Complex</u> – Demolition
C.3.1.12.4 –7500 Complex – Remedial Action
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C.3.1.13 2026 Complex

The 2026 Complex includes the following facilities and structures:

- Building 2026, Radioactive Materials Analytical Laboratory
- Building 2101, Waste Management Organization Health and Hygiene Support
- 2026-CT, Cooling Tower for Building 2026
- 2026-ES, 2026 Filter Pit Exhaust Stack
- 2026-FP, 2026 Filter Pit and Enclosure
- 2032, Manhole 240 Monitoring Station 1
- 2099, Monitoring Control Station for Building 2026

The 2026 Complex is expected to become part of this Contract's scope under Section C.5.3.1 after the incumbent contractor completes uranium-233 processing activities. The desired outcome for the 2026 Complex is demolition of all facilities with footprints cleared, stabilized, and prepared for subsequent

environmental media remediation or future use. This cleanup will be accomplished through the following end states, as described in Section C.3:

- C.3.1.13.1 2026 Characterization
- C.3.1.13.2 2026 Preparation for Demolition
- C.3.1.13.3 2026 Demolition

C.3.1.14 2525 Complex

The 2525 Complex includes the following facilities:

- Building 2525, Fabrication Department Shop A
- Building 2547, General Machine Shop

The desired outcome for the 2525 Complex is demolition of all facilities with footprints cleared, stabilized, and prepared for subsequent environmental media remediation or future use. This cleanup will be accomplished through the following end states, as described in Section C.3:

- C.3.1.14.1 2525 Characterization
- C.3.1.14.2 2525 Preparation for Demolition
- C.3.1.14.3 2525 Demolition

C.3.1.15 2528 Complex

The 2528 Complex includes the following facilities and structures:

- Building 2528, Coal Research Lab
- Building 2528A, Melton Valley Storage Tanks Demonstration Facility

The desired outcome for the 2528 Complex is demolition of all facilities with footprints cleared, stabilized, and prepared for subsequent environmental media remediation or future use. This cleanup will be accomplished through the following end states, as described in Section C.3:

- C.3.1.15.1 2528 Characterization
- C.3.1.15.2 2528 Preparation for Demolition
- C.3.1.15.3 2528 Demolition

C.3.1.16 3019 Complex

The 3019 Complex includes the following facilities and structures:

- Building 3017, Quality Services Division
- Building 3019A, Radiochemical Development Facility
- Building 3019B, High Level Radiation Analytical Lab
- 3020, Exhaust Stack
- 3091, Filter House
- 3100, Source and Special Materials Vault
- 3108, Filter House
- 3121, Off-gas Filter House for 3019A
- 3123, Level 2 Emergency Generator (80-3123)
- 3123-TK, Diesel Fuel Storage Tank (X188092)

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- Building 3130, Waste Operations Control Center
- 3130-80, Optional Standby Diesel Generator
- 3130-TK, 3130 Diesel Fuel Storage Tank (X188035)
- 3131, Level 2 Backup Diesel Generator (X903131)
- 3131-TK, 3019 Diesel Fuel Storage Tank (X187992)
- Building 3135, Sentry Post 8D
- Building 3137, Surface Science Lab
- Building 3145, Low-level Radioactive Waste (LLW) Collection Building
- 3146-80, Level 1 Emergency Generator (X190485)
- 3146-TK, Diesel Fuel Storage Tank (X187993)
- Building 3160, Building 3019 Motor Control Center #1 and #2
- Building 3161, Quality Services Division Storage Building
- Building 3162, Quality Services Division Storage Building

The 3019 Complex is expected to become part of this Contract's scope under Section C.5.3.1 after the incumbent contractor completes uranium-233 processing activities. The desired outcome for the 3019 Complex is demolition of all facilities with footprints cleared, stabilized, and prepared for subsequent environmental media remediation or future use. This cleanup will be accomplished through the following end states, as described in Section C.3:

- C.3.1.16.1 3019 Characterization
- C.3.1.16.2 3019 Preparation for Demolition
- C.3.1.16.3 3019 Demolition

C.3.1.17 Reserved 3039 Stack Complex

The 3039 Stack Complex includes the following facilities and structures:

- 3039, Central Radioactive Off-Gas Disposal Facility
- 3092, Off-Gas Scrubber Facility
- Building 3105, Waste Monitoring Control Center
- 3109, Off-Gas Filter –ORRR
- 3110, Building Cell Filter House
- 3125, 3039 Stack Emergency Generator
- 3126, Charcoal Filter (normal off-gas) ORRR
- 3139, Cell Ventilation Filters ORRR
- 3151, Manhole 25 Monitoring Station 2
- 3158, North Monitoring Building 3025/3026
- 3159, South Monitoring Bldg 3500/4500

The desired outcome for the 3039 Stack Complex is demolition of all facilities with footprints cleared, stabilized, and prepared for subsequent environmental media remediation or future use. This cleanup will be accomplished through the following end states, as described in Section C.3:

- C.3.1.17.1 3039 Stack Complex Characterization
- C.3.1.17.2 3039 Stack Complex Preparation for Demolition

• C.3.1.17.3 3039 Stack Complex – Demolition

C.3.1.18 Central Stack East Hot Cell Facilities Complex

The Central Stack East Hot Cell Facilities Complex includes the following facilities and structures:

- Building 3027, Dispatch Center
- Building 3027A, Dispatch Center Level 1 (emergency) Generator
- Building 3047, Isotope Technology Building
- 3047-CT, Cooling Tower for 3047
- 3047-GEN, Emergency Generator for 3047
- 3047-TK, Diesel Fuel Storage Tank for 3047
- Building 3104, West Complex Maintenance Shop
- Building 3127 LGWO Documentation Management Storage
- Building 3129, Distributed Energy Communication and Control Annex for Building 3114
- 3154, Manhole 112 Monitoring Station
- 3155, Manholes 114 and 234 Monitoring Station
- 3163. West Weather Port
- 3164, East Weather Port

The desired outcome for the Central Stack East Hot Cell Facilities Complex is demolition of all facilities with footprints cleared, stabilized, and prepared for subsequent environmental media remediation or future use. This cleanup will be accomplished through the following end states, as described in Section C.3:

- C.3.1.18.1 Central Stack East Hot Cell Characterization
- C.3.1.18.2 Central Stack East Hot Cell Preparation for Demolition
- C.3.1.18.3 Central Stack East Hot Cell Demolition

C.3.1.19 Experimental Gas-cooled Reactor Complex

The Experimental Gas-cooled Reactor (EGCR) Complex includes the following facilities and structures:

- Building 7600, EGCR Containment Building
- Building 7609, EGCR Stack Monitoring
- Building 7610, Energy Systems Area Storage Building
- 7614, EGCR Exhaust Stack

The desired outcome for the EGCR Complex is demolition of all facilities with footprints cleared, stabilized, and prepared for subsequent environmental media remediation or future use. This cleanup will be accomplished through the following end states, as described in Section C.3:

- C.3.1.19.1 EGCR Characterization
- C.3.1.19.2 EGCR Preparation for Demolition
- C.3.1.19.3 EGCR Demolition

C.3.1.20 Integrated Process Demonstration Facility

The desired outcome for Building 7602, the Integrated Process Demonstration Facility, is a decontaminated facility prepared for re-use. This scope includes characterization, abatement of hazardous materials and radiological contamination, and stabilization to enable future re-use.

C.3.1.21 Molten Salt Reactor Experiment Complex

The Molten Salt Reactor Experiment (MSRE) Complex includes the following facilities and structures:

- Building 7503, MSRE
- 7503A, Inactive LLLW Collection Tank
- 7503B, MSRE Septic Tank
- Building 7507, Substores
- Building 7507W, Storage Facility
- Building 7509, MSRE Office Building
- Facility 7511, Filter Pit for MSRE
- Facility 7512, Stack for MSRE
- Building 7514, Filter House for MSRE
- Building 7516, Field Service Shop
- Building 7555, Diesel Generator House for MSRE

The desired outcome for the MSRE Complex is for <u>demolition of all facilities with footprints cleared and stabilized</u>, and completion of environmental media remediation.salt from <u>Building 7503</u> to be removed and dispositioned and all facilities to be demolished with footprints cleared, stabilized, and prepared for <u>subsequent environmental media remediation or future use</u>. This cleanup will be accomplished through the following end states, as described in Section C.3:

- C.3.1.21.1 MSRE Characterization
- C.3.1.21.2 MSRE Preparation for Demolition
- C.3.1.21.3 MSRE Demolition
- C.3.1.21.4 MSRE Remedial Action

C.3.1.22 Tower Shielding Facilities Complex

The Tower Shielding Facilities Complex includes the following facilities and structures:

- Facility 7700, Four Tower Shielding Facility Towers
- Facility 7700A, Tower Shielding Facility Big Beam Shield and Reactor Turret
- Facility 7701, Tower Shielding Facility Pool
- Building 7702, Control House, Tower Shielding Facility
- Building 7703, Hoist House, Tower Shielding Facility
- Building 7704, Control House, Tower Shielding Facility
- Building 7705, Pump House, Tower Shielding Facility
- Building 7706, Heat Exchanger (Tower Shielding Facility Cooler)
- Building 7707, Battery House, Tower Shielding Facility
- Building 7708, Reactor Shield Storage, Tower Shielding Facility

- Facility 7716, Filter Pump House Main Pool
- Building 7720, Tower Shielding Civil Defense Bunker
- Facility 7760, Process Waste Collection Tank, Tower Shielding Facility

The desired outcome for the Tower Shielding Facilities Complex is demolition of all facilities with footprints cleared <u>and</u>, stabilized, and <u>prepared for subsequent completion of</u> environmental media remediation <u>or future use</u>. This cleanup will be accomplished through the following end states, as described in Section C.3:

C.3.1.22.1	Tower Shielding – Characterization
C.3.1.22.2	Tower Shielding – Preparation for Demolition
C.3.1.22.3	Tower Shielding – Demolition
C.3.1.22.4	Tower Shielding – Remedial Action

C.3.1.23 3544 Complex

The 3544 Complex includes the following facilities and structures:

- Building 3544, Process Waste Water Treatment Plant
- Building 3544B, Filter Press Building
- Building 3518, Process Water Neutralization Plant
- Building 3594, Waste Management Storage Building

The desired outcome for the 3544 Complex is demolition of all facilities with footprints cleared, stabilized, and prepared for subsequent environmental media remediation or future use. This cleanup will be accomplished through the following end states, as described in Section C.3:

```
C.3.1.23.1 3544 – Characterization
C.3.1.23.2 3544 – Preparation for Demolition
C.3.1.23.3 3544 – Demolition
```

C.3.1.24 Melton Valley Reactors and Other Facilities Regulatory Decision Documents

The Melton Valley Reactors and Other Facilities Regulatory Decision Documents would include the following facilities and structures:

Reactors:

- Experimental Gas-cooled Reactor Complex
- Health Physics Research Reactor Complex
- Homogeneous Reactor Experiment Complex
- MSRE Complex

Other facilities:

- Hazardous Waste Materials Area
- Melton Valley LGWO Complex
- Solid Waste Storage Area (SWSA) 5 and 6 Complex
- Shielded Transfer Tanks
- Tower Shielding Facility Complex
- Transuranic Waste Processing Complex (TWPC)

- Waste Management Complex
- Integrated Process Demolition Facility (decontamination only)

The desired outcome for the Melton Valley Reactors and Other Facilities Decision Documents is to complete the ROD and Remedial Action Report.

C.3.1.25 <u>Reserved Melton Valley MSRE Salt Remedial ROD Explanation of Significant Differences</u>

The Melton Valley MSRE Salt Remedial ROD Explanation of Significant Differences includes the following facilities:

Building 7503

The desired outcome for the Melton Valley MSRE Salt Remedial ROD Explanation of SignificantDifferences is to obtain an approved ROD and explanation of significant differences.

C.3.1.26 Bethel Valley Groundwater ROD

The desired outcome for the Bethel Valley Groundwater ROD is to obtain an approved ROD for the Bethel Valley Groundwater.

C.3.1.27 ORR Non-watershed Sites ROD

The desired outcome for the ORR Non-watershed Sites ROD is to obtain an approved ROD for the ORR Non-watershed Sites.

C.3.1.28 Hot Storage Garden Demolition and Remedial Action

The Hot Storage Garden includes the following facilities and structures:

• Building Facility 3597, Hot Storage Garden

The desired outcome for the Hot Storage Garden is demolition of all facilities with footprints cleared and stabilized and completion of environmental media remediation including the removal and disposition of all ancillary above-grade structures. This cleanup will be accomplished through the following end states, as described in Section C.3.C.3.1.28.1 Hot Storage Garden — Characterization

C.3.1.28.2 Hot Storage Garden Preparation for Demolition

C.3.1.28.3 Hot Storage Garden Demoliti

C.3.1.28.41 Hot Storage Garden – Remedial Action

C.3.1.29 Melton Valley Waste Management Complex Demolition and Remedial Action

The Melton Valley Waste Management Complex includes the following facilities and structures:

- Building 2660, Office Building
- Building 7572, Contact-handled (CH) TRU Waste Storage Facility
- Building 7574, Nuclear Fuel Services, Inc. Waste Storage Facility
- Building 7934, Controlled Storage Facility

The desired outcome for the Melton Valley Waste Management Complex is demolition of all facilities with footprints cleared and stabilized and completion of environmental media remediation. This cleanup will be accomplished through the following end states, as described in Section C.3.

C.3.1.29.1 Melton Valley Waste Management Complex – Characterization

- C.3.1.29.2 Melton Valley Waste Management Complex Preparation for Demolition
- C.3.1.29.3 Melton Valley Waste Management Complex Demolition
- C.3.1.29.4 Melton Valley Waste Management Complex Remedial Action

C.3.1.30 Shielded Transfer Tanks Disposition

The Shielded Transfer Tanks include the following structures:

- Weather Shelter, open structure
- Shielded Transfer Tank ST1, 500 gallons
- Shielded Transfer Tank ST2, 500 gallons
- Shielded Transfer Tank ST3, 500 gallons
- Shielded Transfer Tank ST4, 500 gallons
- Shielded Transfer Tank ST5, 500 gallons

The desired outcome for the Shielded Transfer Tanks is removal and final disposition as described in Section C.3:

- C.3.1.30.1 Shielded Transfer Tanks Complex Characterization
- C.3.1.30.2 Shielded Transfer Tanks Complex Prep for Demolition
- C.3.1.30.3 Shielded Transfer Tanks Complex Demolition

C.3.1.31 TRU Waste Processing Complex Demolition and Remedial Action

The TRU Waste Processing Complex includes the following structures:

- Building 7880, Waste Processing Facility
- 7880A, CH Staging Area
- 7880AA, Drum Venting Building
- 7880AB, Mock-up Training Building
- 7880AE, Instrumentation and Electrical Maintenance Shop
- 7880AC, Mobile In Situ Object Counting System
- 7880AD Limited Area 1
- 7880B Personnel Building
- 7880BB, CH Marshaling Building
- 7880B-TK, 7880B Above-ground Sewage Tank
- 7880CC, Project and General Management
- 7880D, Control Room
- 7880DD, Engineering
- 7880E, Boiler Room
- 7880EE, Restroom Facility
- 7880EE-TK, 7880EE Underground Sewage Tank
- 7880F, Air Compressor
- 7880G, Electrical Equipment Building
- 7880H, Backup Diesel Generator
- 7880HH, Macroencapsulation Building

- 7880II, Steel Carport Cover
- 7880JJ, Training Center
- 7880K, Limited Access Gate Trailer
- 7880KK, Operation and Safety Support
- 7880L, DOE Office Trailer
- 7880L-TK, Underground Sewage Tank
- 788<u>10</u>PP, Telecommunications Center
- 7880Q, Restroom Facility
- 7880QQ, Multipurpose Building
- 7880Q-TK, 7880Q Underground Sewage Tank
- 7880RR, Radcon Office
- 7880RR-TK, 7880R Underground Sewage Tank
- 7880S, Backup Air Compressor
- 7880TT, Inventory Control Office
- 7880WW, Diesel Generator
- 7880X, Box Breakdown Area Field Office
- 7880YY, Environmental Control Storage
- 7880Z-TK, 7880-TK Underground Sewage Tank

The desired outcome for the TRU Waste Processing Complex is demolition of all facilities with footprints cleared and stabilized, and completion of environmental media remediation. This cleanup will be accomplished through the following end states, as described in Section C.3.

C.3.1.31.1- TRU Waste Processing Complex Characterization

C.3.1.31.2 - TRU Waste Processing Complex Prep for Demolition

C.3.1.31.3 – TRU Waste Processing Complex Demolition

C.3.1.31.4 – TRU Waste Processing Complex Remedial Action

C.3.1.32 Bethel Valley Process Drain Diversion

The following buildings have been identified as being connected to the process waste system in the 1000 and 3000 Areas and will be reconfigured to divert nonradiological, low-hazard process drains from the Process Waste Treatment Complex to the new ORNL Sanitary Treatment Plant for treatment receive new sanitary lines diverting the waste to the ORNL Sewage Treatment Plant.

Area 1000:

- Building 1503, Plant Sciences Lab
- Building 1504, Aquatic Ecology Laboratory
- Building 1505, Environmental Sciences Lab
- Building 1506, Controlled Environmental and Animal Building

Area 3000:

- Building 3025E, 3025E Irradiated Material Examination and Testing Hot Cell Facility
- Building 3137, Surface Science Lab
- Building 3525, High Radiation Level Examination Laboratory

The desired outcome is to complete <u>reconfiguration of the wastewater system to reduce the volume of waste delivered to Process Waste Treatment Complex installation of the new sanitary waste lines.</u>

C.3.1.33 Bethel Valley Remedial Actions

The Bethel Valley Remedial Actions include the following exposure units:

- Exposure Unit 1
- Exposure Unit 2
- Exposure Unit 3
- Exposure Unit 4
- Exposure Unit 5
- Exposure Unit 6
- Exposure Unit 7
- Exposure Unit 8
- Exposure Unit 9
- Raccoon Creek Stream Reach Exposure Unit
- First Creek Stream Reach Exposure Unit
- Northwest Tributary Stream Reach Exposure Unit
- Fifth Creek Stream Reach Exposure Unit
- White Oak Creek Stream Reach Exposure Unit
- West Bethel Valley Assessment Units 1-4
- West Bethel Valley Assessment Unit 5
- West Bethel Valley Assessment Units 7-8
- Central Bethel Valley Assessment Units 1-2
- Central Bethel Valley Assessment Units 3-6
- East Bethel Valley Assessment Units 1-2
- East Bethel Valley Assessment Units 3-6
- Other Tanks and Pipelines

The desired outcome for the Bethel Valley Sites Remedial Action is to complete environmental media remediation as described in Section C.3.

C.3.1.33.1 – Bethel Valley Sites Remedial Action

C.3.1.34 Bethel Valley Non-hydraulic Fracturing Well Plug and Abandon

The Bethel Valley Non-Hydraulic Fracturing Well Plug and Abandon PWS includes 309 wells located throughout the Bethel Valley area.

The desired outcome is to complete the Plug and Abandon actions for the Bethel Valley Non-hydraulic Fracturing Wells.

C.3.1.35 ORR Non-watershed Sites Remedial Action

The ORR Non-watershed Sites Remedial Actions include the following areas:

At ORNL:

Central Chestnut Ridge Study Area

- Copper Ridge Study Area
- West Haw Ridge/Bearden Creek Watershed Study Area
- West Chestnut Ridge/West Bethel Valley
- Walker Branch Study Area
- High Flux Isotope Reactor Area

At ETTP:

- McKinney Ridge Study Area
- West Black Oak Ridge Study Area
- West Pine Ridge Study Area

The desired outcome for the ORR Non-watershed Sites Remedial Action is to complete environmental media remediation as described in Section C.3.

C.1.35.1 – ORR Non-watershed Sites Remedial Action

C.3.1.36 2007/2008 Complex Demolition

The 2007/2008 Complex includes the following facilities and structures:

- Building 2003, Process Water Control Station
- Building 2007, Calibration Lab
- Building 2008, ORNL Whole Body Counter

The desired outcome for the 2007/2008 Complex is demolition of all facilities in the complex with footprints cleared, stabilized, and prepared for subsequent environmental media remediation or future use. This cleanup will be accomplished through the following end states, as described in Section C.3:

C.3.1.36.1 2007/2008 – Characterization
C.3.1.36.2 2007/2008 – Preparation for Demolition
C.3.1.36.3 2007/2008 – Demolition

C.3.1.37 3025 Complex Demolition

The 3025 Complex includes the following facilities and structures:

- Building 3025E, Irradiated Material Examination and Testing Hot Cell Facility
- Building 3025M, Solid State Office and Laboratory Building

The desired outcome for the 3025 Complex is demolition of all facilities with footprints cleared, stabilized, and prepared for subsequent environmental media remediation or future use. This cleanup will be accomplished through the following end states, as described in Section C.3:

C.3.1.37.1 3025 Complex – Characterization
 C.3.1.37.2 3025 Complex – Preparation for Demolition
 C.3.1.37.3 3025 Complex – Demolition

C.3.1.38 3525 Complex Demolition

The 3525 Complex includes the following facilities and structures:

- Building 3525, High-Rad Level Examination Laboratory
- Building 3602, Cylinder Tank Storage for Building 3525

Building 3607, Cask Tool Storage

The desired outcome for the 3525 Complex is demolition of all facilities with footprints cleared, stabilized, and prepared for subsequent environmental media remediation or future use. This cleanup will be accomplished through the following end states, as described in Section C.3:

C.3.1.38.1 3525 Complex – Characterization
 C.3.1.38.2 3525 Complex – Preparation for Demolition
 C.3.1.38.3 3525 Complex – Demolition

C.3.1.39 4501/4505 Complex Demolition

The 4501/4505 Complex includes the following facilities and structures:

- Building 4500N, Central Research and Administrative North (prepare for reuse)
- Building 4500S, Central Research and Administrative South (prepare for reuse)
- Building 45104501, Radiochemistry Lab
- Building 4505, Experimental Engineering

The desired outcome for the 4501/4505 Complex is <u>removal of legacy materials from Buildings 4500N</u> and 4500S, and demolition of <u>all-Buildings 4501 and 4505facilities</u> with footprints cleared, stabilized, and prepared for subsequent environmental media remediation or future use. This cleanup will be accomplished through the following end states, as described in Section C.3:

C.3.1.39.1 4501/4505 Complex – Characterization
 C.3.1.39.2 4501/4505 Complex – Preparation for Demolition
 C.3.1.39.3 4501/4505 Complex – Demolition

C.3.1.40 5505 Demolition

The 5505 facility includes the following building:

• Building 5505, Transuranium Research Lab

The desired outcome for the 5505 facility is demolition of Building 5505 with the footprint cleared, stabilized, and prepared for subsequent environmental media remediation or future use. This cleanup will be accomplished through the following end states, as described in Section C.3:

C.3.1.40.1 5505 Facility – Characterization
 C.3.1.40.2 5505 Facility – Preparation for Demolition
 C.3.1.40.3 5505 Facility – Demolition

C.3.1.41 6010/7019 Complex Demolition

The 6010/7019 Complex includes the following facilities and structures:

- Building 6010 (and 6010-ACC), Oak Ridge Electron Linear Accelerator
- Building 7019, Research Reactors Division Warehouse Facility Category C Storage

The desired outcome for the 6010/7019 Complex is demolition of all facilities with footprints cleared, stabilized, and prepared for subsequent environmental media remediation or future use. This cleanup will be accomplished through the following end states, as described in Section C.3:

C.3.1.41.1 6010/7019 Complex – Characterization

- C.3.1.41.2 6010/7019 Complex Preparation for Demolition
- C.3.1.41.3 6010/7019 Complex Demolition

C.3.1.42 Fire Station Complex Demolition

The Fire Station Complex Demolition includes the following facilities and structures:

- Building 2500, Guard and Fire Headquarters
- Building 2518, Support Services Building
- Building 2523, Decontamination Laundry
- Building 2523A, Decontamination Laundry Annex
- Facility 2572, Emergency Generator for 2500
- Building 2621, Electrical Utilities Shop
- Building 2628, Fire Protection Maintenance Storage

The desired outcome for the Fire Station Complex is demolition of all facilities with footprints cleared, stabilized, and prepared for subsequent environmental media remediation or future use. This cleanup will be accomplished through the following end states, as described in Section C.3:

- C.3.1.42.1 Fire Station Complex Characterization
- C.3.1.42.2 Fire Station Complex Preparation for Demolition
- C.3.1.42.3 Fire Station Complex Demolition

C.3.1.43 Health Physics Research Reactor Complex Demolition

The Health Physics Research Reactor Complex includes the following facilities and structures:

- Building 7709, Health Physics Research Reactor
- Building 7710, Dosimetry Applications Research Facility
- Building 7712, Dosimetry Applications Research Low Energy Accelerator
- Building 7735, Radiation Calibration Laboratory
- Building 7758, High Flux Isotope Reactor Parts Storage

The desired outcome for the Health Physics Research Reactor Complex is demolition of all facilities with footprints cleared, stabilized, and prepared for subsequent environmental media remediation or future use. This cleanup will be accomplished through the following end states, as described in Section C.3:

- C.3.1.43.1 Health Physics Research Reactor Complex Characterization
- C.3.1.43.2 Health Physics Research Reactor Complex Preparation for Demolition
- C.3.1.43.3 Health Physics Research Reactor Complex Demolition

C.3.1.44 Southeast Contaminated Labs Complex Demolition

The Southeast Contaminated Labs Complex includes the following facilities and structures:

- Building 3523, Electronic Fabrication Shop
- Building 3613, Diversion Box Monitoring Station 3
- Building 3615, Manhole 235 Monitoring Station 5
- Building 3616, Manhole 149 Monitoring Station 6
- Building 3617, Manhole 229 Monitoring Station 7

The desired outcome for the Southeast Contaminated Labs Complex is demolition of all facilities with footprints cleared, stabilized, and prepared for subsequent environmental media remediation or future use. This cleanup will be accomplished through the following end states, as described in Section C.3:

- C.3.1.44.1 Southeast Contaminated Labs Complex Characterization
- C.3.1.44.2 Southeast Contaminated Labs Complex Preparation for Demolition
- C.3.1.44.3 Southeast Contaminated Labs Complex Demolition

C.3.1.45 Southeast Services Complex Demolition

The Southeast Services Complex includes the following facilities and structures:

- Building 3501, Sewage Pumping Station
- Building 3502, East Research Service Center
- Building 3502B, Data Concentrator 4 Waste Operations Control Center Data Acquisition System 3502
- Building 3587, Mail Services Building
- Building 3610, Storage Building
- Building 3614, Manhole 190 Monitoring Station
- Building 3618, WC-10 Tank Farm Pumping Station
- Building 3621, Tent, Spill Response Vehicle Shelter

The desired outcome for the Southeast Services Complex is demolition of all facilities with footprints cleared, stabilized, and prepared for subsequent environmental media remediation or future use. This cleanup will be accomplished through the following end states, as described in Section C.3:

- C.3.1.45.1 Southeast Services Complex Characterization
- C.3.1.45.2 Southeast Services Complex Preparation for Demolition
- C.3.1.45.3 Southeast Services Complex Demolition

C.3.1.46 Bethel Valley Tank Upgrades

The Bethel Valley Tank Upgrades include the following facilities:

- Building, 2531 LLLW Evaporator Building
- Building, 2537 Evaporator Service Tank and Control Room for 2531

The desired outcome for the Bethel Valley Tank Upgrades is the removal and replacement of the Fluidic Pulse Jet mobilization and transfer system.is to prepare the facility for sludge removal and/or transfer to Melton Valley.

C.3.1.47 Melton Valley Trench 13 Remedial Action

The desired outcome for the Melton Valley Trench 13 Remedial Action is to complete environmental media remediation as described in Section C.3.

C.3.1.47.1 Melton Valley Trench 13 Remedial Action

C.3.2 Y-12 Cleanup

As authorized by Task Order, the Contractor shall perform cleanup (characterization, preparation for demolition, demolition, and environmental media remediation), including but not limited to the Y-12 facilities, complexes, and areas listed below. Cleanup shall be performed in accordance with the

following regulatory documents, as applicable, and may be modified by subsequent regulatory agreements or requirements:

- Action Memorandum for the Y-12 Facilities Non-Time-Critical Removal Action Deactivation/Demolition Project, Oak Ridge, Tennessee (DOE/OR/01-2462&D2)
- Record of Decision for Phase I Interim Source Control Actions in the Upper East Fork Poplar Creek Characterization Area, Oak Ridge, Tennessee (DOE/OR/01-1951&D3)
- Record of Decision for Phase II Interim Remedial Actions for Contaminated Soils and Scrapyard in Upper East Fork Poplar Creek, Oak Ridge, Tennessee (DOE/OR/01-2229&D3)

For additional details, refer to Table 2 of Attachment C-1, Facility and Site List.

C.3.2.1 Biology Complex

The Biology Complex includes the following facilities and structures:

- Building 9207, Biology
- Building 9207-A, Office Annex
- Building 9210, Mammalian Genetics
- Buildings 9767-06 and 9767-07, Utilities

The desired outcome for the Biology Complex is demolition of all facilities with footprints cleared, stabilized, and prepared for environmental media remediation for future usewith the footprint for the complex remediated for future use. This cleanup will be accomplished through the following end states, as described in Section C.3:

- C.3.2.1.1 Biology Characterization
- C.3.2.1.2 Biology Preparation for Demolition
- C.3.2.1.3 Biology Demolition

C.3.2.2 Beta 4 (9204-4) Complex

The Beta 4 (9204-4) Complex is part of the Y-12 former mercury use facilities and includes the following facilities and structures:

- Building 9204-04, Production (Beta 4)
- Building 9501-09, Transformer Vault
- OD-7, Building 9811-1 RCRA Tank Storage Area
- OD-9, Building 9811-8 Waste Oil/Solvent Storage Area
- •—
- Buildings 9802-01 and 9802-02, Steam Stations at Beta 4
- Building 9811-01, Storage
- Building 9811-04, Tanker Transfer Station

The desired outcome for the Beta 4 (9204-4) Complex is demolition of all facilities with footprints cleared, stabilized, and prepared for subsequent environmental media remediation or future use. This cleanup will be accomplished through the following end states, as described in Section C.3:

- C.3.2.2.1 Beta 4 Characterization
- C.3.2.2.2 Beta 4 Preparation for Demolition

C.3.2.2.3 Beta 4 – Demolition

C.3.2.3 Alpha 5 (9201-5) Complex

The Alpha 5 (9201-5) Complex is part of the Y-12 former mercury use facilities and includes the following facilities and structures:

- Building 9201-05, Production Alpha 5
- Building 9404-18, Demineralizer Facility
- Building 9404-20, Laborer Facility
- Building 9422-13, Storage
- Building 9422-15, Storage
- Building 9422-16, Storm Drain Monitoring
- Building 9622, Warehouse and Industrial
- Building 9976, Utilities
- Building 9983-HF, Decontamination Shower Facility

The desired outcome for the Alpha 5 (9201-5) Complex is demolition of all facilities with footprints cleared, stabilized, and prepared for subsequent environmental media remediation or future use. This cleanup will be accomplished through the following end states, as described in Section C.3:

- C.3.2.3.1 Alpha 5 Characterization
- C.3.2.3.2 Alpha 5 Preparation for Demolition
- C.3.2.3.3 Alpha 5 Demolition

The following buildings **are not** part of the Alpha 5 Complex scope: Building Alpha 5 North and West; Building 9404-13, Pumphouse; Building 9409-13, Cooling Tower; Building 9416-14, Utilities; Building 9416-31, Fire Protection Valve House; Building 9422-16, Storm Drain Monitoring; and Building 9767-13, Chiller Building. These facilities will be retained by the Y-12 Site for operational purposes.

The Contractor shall coordinate closely with the Y-12 M&O contractor to ensure appropriate measures are taken to protect worker health and safety during preparation for demolition and demolition (e.g., requesting the M&O contractor temporarily vacate the facilities), and shall take the necessary actions to protect the structural integrity of Alpha 5 Complex facilities to be retained by the M&O contractor.

The Alpha 5 Complex is currently the utility hub for steam, electricity, and communications (including secured data lines) for the west end of the Y-12 Site. The Contractor shall coordinate timely relocation of these utilities by NNSA and its Y-12 M&O contractor.

C.3.2.4 Alpha 4 (9201-4) Complex

The Alpha 4 (9201-4) Complex is part of the Y-12 former mercury use facilities and includes the following facilities and structures:

- Building 9201-04, Alpha 4 (including East and South Column Exchange, or COLEX, Process Equipment)
- Building 9501-05, Transfer Stations #699 and #674
- Building 9804, Valve House for 9201-04

The desired outcome for the Alpha 4 (9201-4) Complex is demolition of all facilities with footprints cleared, stabilized, and prepared for subsequent environmental media remediation or future use. This cleanup will be accomplished through the following end states, as described in Section C.3:

- C.3.2.4.1 Alpha 4 Characterization
- C.3.2.4.2 Alpha 4 Preparation for Demolition
- C.3.2.4.3 Alpha 4 Demolition

C.3.2.5 Alpha 2 (9201-2) Complex

The Alpha 2 (9201-2) Complex is part of the Y-12 former mercury use facilities and includes the following facilities and structures:

- Building 9201-02, Fusion Energy Building
- Building 9501-02, Primary Electric Substation #599
- Building 9732-02, Storage Building

The desired outcome for the Alpha 2 (9201-2) Complex is demolition of all facilities with footprints cleared, stabilized, and prepared for subsequent environmental media remediation or future use. This cleanup will be accomplished through the following end states, as described in Section C.3:

- C.3.2.5.1 Alpha 2 Characterization
- C.3.2.5.2 Alpha 2 Preparation for Demolition
- C.3.2.5.3 Alpha 2 Demolition

C.3.2.6 Alpha 3 (9201-3) Complex

The Alpha 3 (9201-3) Complex includes the following facilities and structures:

- Building 9201-3, Maintenance Facility
- Building 9732-3, Painter Facility
- Building 9999-3, Demineralizer Facility

The desired outcome for the Alpha 3 (9201-3) Complex is demolition of all facilities with footprints cleared, stabilized, and prepared for subsequent environmental media remediation or future use. This cleanup will be accomplished through the following end states, as described in Section C.3:

- C.3.2.6.1 Alpha 3 Characterization
- C.3.2.6.2 Alpha 3 Preparation for Demolition
- C.3.2.6.3 Alpha 3 Demolition

C.3.2.7 Beta 1 (9204-1) Complex

The Beta 1 (9204-1) Complex includes the following facilities and structures:

- Building 9204-1, Fusion Energy Eng. Tech.
- Building 9422, Helium Compressor Building
- Building 9501-04, Prime Substation #824

The desired outcome for the Beta 1 (9204-1) Complex is demolition of all facilities with footprints cleared, stabilized, and prepared for subsequent environmental media remediation or future use. This cleanup will be accomplished through the following end states, as described in Section C.3:

- C.3.2.7.1 Beta 1 Characterization
- C.3.2.7.2 Beta 1 Preparation for Demolition
- C.3.2.7.3 Beta 1 Demolition

C.3.2.8 9206 Complex

The 9206 Complex includes the following facilities and structures:

- Building 9206, Production
- Building 9206, Tank Farm
- Building 9768, Utilities
- Building 9720-17, Warehouse and Industrial Building

The desired outcome for the 9206 Complex is demolition of all facilities with footprints cleared, stabilized, and prepared for subsequent environmental media remediation or future use. This cleanup will be accomplished through the following end states, as described in Section C.3:

C.3.2.8.1 9206 – Characterization
C.3.2.8.2 9206 – Preparation for Demolition
C.3.2.8.3 9206 – Demolition

C.3.2.9 9213 Complex

The 9213 Complex includes the following facilities and structures:

- Building 9213, Development and Offices
- Building 9703-14, Former Post-3 South Portal
- 9999-02, Motor Generator (9213 Area)

The desired outcome for the 9213 Complex is completion of preparation for demolition of all facilities. This cleanup will be accomplished through the following end states, as described in Section C.3:

C.3.2.9.1 9213 – Characterization
C.3.2.9.2 9213 – Preparation for Demolition

C.3.2.10 9401-2 Facility

The 9401-2 Facility includes the following facilities and structures:

• Building 9401-2, Plating Shop and Maintenance

The desired outcome for the 9401-2 Facility is demolition of all facilities with footprints cleared, stabilized, and prepared for subsequent environmental media remediation or future use. This cleanup will be accomplished through the following end states, as described in Section C.3:

C.3.2.10.1 9401-2 – Characterization
 C.3.2.10.2 9401-2 – Preparation for Demolition
 C.3.2.10.3 9401-2 – Demolition

C.3.2.11 Reserved

C.3.2.12 Reserved

C.3.2.13 Steam Plant Complex

The Steam Plant Complex includes the following facilities and structures:

- Building 9401-03, Old Coal Fired Steam Plant
- Building 9616-09, Steam Plant Wastewater Facility

- Building 9616-10, Bulk Sulfuric Unload Station
- Building 9811-06, Dry Ash Handling Facility
- Building 9811-07, Ash Handling Facility
- Building 9990, Monitoring Station
- Building 9990-03, Coal Sampling Building

The desired outcome for the Steam Plant Complex is demolition of all facilities with footprints cleared, stabilized, and prepared for subsequent environmental media remediation or future use. This cleanup will be accomplished through the following end states, as described in Section C.3:

- C.3.2.13.1 Steam Plant Characterization
- C.3.2.13.2 Steam Plant Preparation for Demolition
- C.3.2.13.3 Steam Plant Demolition

C.3.2.14 Tank Facilities Complex

The Tank Facilities Complex includes the following facilities and structures:

- Building 9720-44, Shed–Sludge Handling Facility
- Building 9720-45, Liquid Organic Waste Facility
- Building 9809-01, Waste Storage
- Building 9825-01, Waste Storage
- Building 9825-02, Waste Storage
- OD-7, Building 9811-1 RCRA Tank Storage Area
- OD-9, Waste Oil/Solvent Storage Area

The desired outcome for the Tank Facilities Complex is demolition of all facilities with footprints cleared, stabilized, and prepared for subsequent environmental media remediation or future use. This cleanup will be accomplished through the following end states, as described in Section C.3:

- C.3.2.14.1 Tank Facilities Characterization
- C.3.2.14.2 Tank Facilities Preparation for Demolition
- C.3.2.14.3 Tank Facilities Demolition

C.3.2.15 Upper East Fork Poplar Creek 81-10 Area Remedial Action

The desired outcome for the Upper East Fork Poplar Creek 81-10 Area is to complete environmental media remediation as described in Section C.3.

C.3.2.15.1 Upper East Fork Poplar Creek 81-10 Area – Remedial Action

C.3.2.16 Y-12 Exposure Unit 5

The desired outcome for the Y-12 Exposure Unit 5 is to complete environmental media remediation as described in Section C.3.

C.3.2.16.1 Y-12 Exposure Unit 5 – Remedial Action

C.3.2.17 9401-1 Facility

The desired outcome is demolition of the 9401-1 Facility with a footprint cleared, stabilized, and prepared for subsequent environmental media remediation or future use. This cleanup will be accomplished through the following end states, as described in Section C.3:

- C.3.2.17.1 9401-1 Facility Characterization
- C.3.2.17.2 9401-1 Facility Preparation for Demolition
- C.3.2.17.3 9401-1 Facility Demolition

C.3.2.18 Nickel Disposition

The desired outcome is final offsite disposition of the nickel inventory stored at the Y9830 Above-ground Storage Facility adjacent to the Environmental Waste Management Facility (EMWMF).

C.3.2.19 Bear Creek Valley Burial Ground ROD

The desired outcome is for an approved ROD for the Bear Creek Valley Burial Ground.

C.3.2.20 Bear Creek Valley Groundwater ROD

The desired outcome is for an approved ROD for the Bear Creek Valley Groundwater.

C.3.2.21 Bear Creek Valley Burial Grounds Remedial Action

The desired outcome for the Bear Creek Valley Burial Grounds Remedial Action is to complete environmental media remediation as described in Section C.3.

C.3.2.21.1 Bear Creek Valley Burial Grounds – Remedial Action

C.3.2.22 Bear Creek Valley S-3 Ponds Remedial Action

The desired outcome for the Bear Creek Valley S-3 Ponds Remedial Action is to complete environmental media remediation as described in Section C.3.

C.3.2.22.1 Bear Creek Valley S-3 Ponds – Remedial Action

C.3.2.23 Bear Creek Valley White Wing Scrap Yard Remedial Action

The desired outcome for the Bear Creek Valley White Wing Scrap Yard Remedial Action is to complete environmental media remediation as described in Section C.3.

C.3.2.23.1 Bear Creek Valley White Wing Scrap Yard – Remedial Action

C.3.2.24 Bear Creek Valley White Wing Scrap Yard ROD

The desired outcome is for an approved ROD for the Bear Creek Valley White Wing Scrap Yard.

C.3.2.25 Chestnut Ridge ROD

The desired outcome is to complete the Chestnut Ridge ROD.

C.3.2.26 Upper East Fork Poplar Creek Soils Remedial Action

The desired outcome for the Upper East Fork Poplar Creek Soils is to complete environmental media remediation as described in Section C.3.

C.3.2.26.1 Upper East Fork Poplar Creek Soils – Remedial Action

C.3.2.27 Bear Creek Valley NT-8 Action Memo and Removal Action

The desired outcome is to complete the Bear Creek Valley NT-8 Action Memo and Remedial Action.

C.3.2.27.1 Bear Creek Valley NT-8 – Remedial Action

C.3.2.28 Chestnut Ridge Remedial Action

The desired outcome for the Chestnut Ridge Remedial Action is to complete environmental media remediation as described in Section C.3.

C.3.2.28.1 Chestnut Ridge – Remedial Action

C.3.2.29 9212 Complex Demolition

The 9212 Complex includes the following facilities and structures:

- Building 9212, Production
- Building 9409-22A, Cooling Tower, 9212
- •—Building 9409-22B, Cooling Tower, 9212

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- Building 9409-22E, Cooling Tower, 9212
- Building 9409-23, Cooling Tower, 9212
- Building 9409-24, Cooling Tower, 9212/9215
- Building 9416-12, Utilities, 9416-12
- Building 9416-28, Fire Protection Valve House (-22 Tower)
- Building 9416-32, Water Treatment and Valve House
- Building 9416-46, Valve House North of 9423
- Building 9423, Material Storage Warehouse
- Building 9721, Office Trailer
- Building 9723-25, Changehouse/Offices
- Building 9767-10, Chiller Building
- Building 9811-09, Transfer Station 9811-9
- Building 9812, Tank Pit
- Building 9815, Nitrate Facility
- Building 9818, Acid Waste Neutralization
- Building 9820, Electrical Storage
- Building 9828-01, Bag Filter System
- Building 9828-02, Probe House
- Building 9828-03, Bag Filter House
- Building 9959-01, Storage
- Building 9980, Process Building
- Building 9981, Physical Testing, X-Ray
- Building 9996, Depleted Uranium Binary
- Building 9999, Motor Generator

The desired outcome for the 9212 Complex is demolition of all facilities with footprints cleared, stabilized, and prepared for subsequent environmental media remediation or future use. This cleanup will be accomplished through the following end states, as described in Section C.3:

C.3.2.29.1 9212 Complex – Characterization
C.3.2.29.2 9212 Complex – Preparation for Demolition
C.3.2.29.3 9212 Complex – Demolition

C.3.2.30 Y-12 Balance of Facilities

The Y-12 Balance of Facilities includes the following facilities and structures:

- Building 9424-01, Foam House for OD-09
- Building 9424-02, Foam House for OD-10
- Building 9703-14, Post 3 South Portal (9213 Area)
- Building 9840-04, Drum Cleaning Station
- Building 9983-FX, FRC Field Support Trailer
- Building 9999-02, Motor Generator

The desired outcome for the Y-12 Balance of Facilities is demolition of all facilities with footprints cleared, stabilized, and prepared for subsequent environmental media remediation or future use. This cleanup will be accomplished through the following end states, as described in Section C.3:

C.3.2.30.1 Y-12 Balance of Facilities – Characterization
 C.3.2.30.2 Y-12 Balance of Facilities – Preparation for Demolition
 C.3.2.30.3 Y-12 Balance of Facilities – Demolition

C.3.3 ETTP Cleanup

As authorized by Task Order, the Contractor shall perform cleanup at the ETTP, including but not limited to, the structures and areas listed below. Cleanup <u>performed</u> shall be <u>performed</u> in accordance with the following regulatory documents, as applicable, and may be modified by subsequent regulatory agreements or requirements:

- Action Memorandum for the Remaining Facilities Demolition Project at East Tennessee Technology Park, Oak Ridge, Tennessee (DOE/OR/01-2049&D2)
- Record of Decision for Interim Actions in Zone 1, East Tennessee Technology Park, Oak Ridge, Tennessee (DOE/OR/01-1997&D2)
- Record of Decision for Soil, Buried Waste and Subsurface Structure Actions in Zone 2, East Tennessee Technology Park, Oak Ridge, Tennessee (DOE/OR/01-2161&D2)
- Explanation of Significant Differences for the ROD for the Disposal of Oak Ridge Reservation Comprehensive Environmental Response, Compensation, and Liability Act of 1980 Waste, Oak Ridge, Tennessee (DOE/OR/01-2194&D2)

For additional details, refer to Table 3 of Attachment C-1, Facility and Site List.

C.3.3.1 Zone 1 Soil

The desired outcome is completion of ETTP Zone 1 soil environmental media remediation as described in Section C.3.

The Contractor shall complete the soil remedial actions and required regulatory completion documentation associated with the *Record of Decision for Interim Actions in Zone 1, East Tennessee Technology Park, Oak Ridge, Tennessee* (ETTP Zone 1 Final Soils ROD) (DOE/OR/01-1997&D2), including the Remedial Action Report after the final cleanup action is complete.

The Contractor shall prepare the Proposed Plan and ROD for final regulatory decisions for ETTP Zone 1 soils. The Contractor shall complete the soil remedial actions and required regulatory completion documentation in accordance with the ETTP Zone 1 Final Soils ROD.

C.3.3.2 Zone 2 Soil

The desired outcome is completion of ETTP Zone 2 Soil environmental media remediation as described in Section C.3.

Upon the completion of all Zone 2 remedial actions, the Contractor shall prepare the FFA Remedial Action Report summarizing phased construction completion reports that address the scope completed as a result of the *Record of Decision for Soil, Buried Waste and Subsurface Structure Actions in Zone 2, East Tennessee Technology Park, Oak Ridge, Tennessee* (DOE/OR/01-2161&D2).

The Contractor shall complete the soil remedial actions and required regulatory completion documentation associated with the following Zone 2 areas:

- C.3.3.2.1 Zone 2 Southeast Area Exposure UnitsC.3.3.2.2 Zone 2 North-by-Northwest Area Exposure Units
- C.3.3.2.3 Zone 2 K-25 Area Trichloroethylene Plume
- C.3.3.2.4 Zone 2 Balance of K-25 Area Exposure Units

C.3.3.3 Groundwater and <u>Remaining Ecological</u>, Surface Water, and <u>Sediment Remediation</u>

The desired outcomes are approved RODs that define ETTP groundwater and <u>remaining ecological</u>, surface water, <u>and sediment</u> remediation and completion of environmental media remediation as described in Section C.3.

The Contractor shall prepare the ETTP Main Plant Area Groundwater Proposed Plan and ROD for approval, utilizing the results of the groundwater treatability study, as applicable. The Contractor shall prepare the Proposed Plans and RODs for the balance of ETTP groundwater, and surface water, as negotiated with the FFA parties. The contractor shall-prepare the necessary CERCLA/FFA documents and conduct the necessary activities to support completion and approval of remaining RODs. These actions may include but are not necessarily-limited to: preparing/revising Remedial Investigation Work Plans, conducting remedial investigations, preparing Remedial Investigation/Feasibility Study reports, preparing Proposed Plans, Preparing RODs. If the FFA parties agree to pursue interim actions, the Contractor shall prepare interim ROD(s) and complete additional remedial investigation and feasibility studies to support a final ROD.

The Contractor shall complete the groundwater and <u>remaining ecological</u>, surface water, <u>and sediment</u> remedial actions and required regulatory completion documentation in accordance with the approved RODs and shall complete interim actions in accordance with approved interim RODs.

- C.3.3.3.1 ETTP Proposed Plan and ROD Development
- C.3.3.3.2 ETTP Main Plant Area Groundwater Groundwater and Remaining Ecological, Surface Water, and Sediment Remediation

C.3.3.4 Haul Road and Bridge Removal

The Contractor shall remediate the Haul Road and two bridges (over Highways 58 and 95) between ETTP Portal 5 and the EMWMF. The desired outcome for the Haul Road and Bridge Removal is removal of the bridges and remediation of the Haul Road. This cleanup will be accomplished through the following end states, as described in Section C.3:

C.3.3.4.1 Haul Road and Bridge – Characterization

- C.3.3.4.2 Haul Road and Bridge Preparation for Demolition
- C.3.3.4.3 Haul Road and Bridge Demolition
- C.3.3.4.4 Haul Road and Bridge Environmental Media Remediation

C.4 CERCLA Disposal Facility Construction (Y-12)

The desired outcome is completed design, construction, and startup of the new onsite CERCLA disposal facility (the EMDF) to support uninterrupted cleanup activities on the ORR.

The EMDF is planned to have a capacity of approximately 2.2 million cubic yards and is planned to be constructed in three phases, as capacity is needed, with each phase encompassing approximately one-third of the total capacity.

The Contractor shall provide documentation and support reviews necessary for DOE to obtain a Disposal Authorization Statement for EMDF per DOE Manual Order 435.1—I requirements.

C.4.1 CERCLA Disposal Facility Design

As authorized by Task Order, the Contractor shall complete the design for the EMDF. The Contractor shall meet the requirements of DOE O 413.3, including design reviews and documentation to support attainment of <u>tailored critical decisions (CDs) identified in the Project Execution Plan. CD-2/3, Approve Performance Baseline/Approve Start of Constructi</u>

C.4.2 CERCLA Disposal Facility Construction

As authorized by Task Order, the Contractor shall perform construction activities for the EMDF. Construction shall be performed in a manner that ensures continuous waste disposal operations, stakeholder acceptance, and timely regulatory approvals. Construction activities shall also be performed in accordance with regulatory requirements, DOE Order 413.3, and the design.

C.4.3 CERCLA Disposal Facility Startup

As authorized by Task Order, the Contractor shall perform startup activities for the EMDF. Startup shall be performed in a manner that ensures continuous waste disposal operations, stakeholder acceptance, and timely regulatory approvals. Startup activities shall also be performed in accordance with regulatory requirements and DOE Order 413.3, including documentation for CD-4, Approve Start of Operations.

As authorized by Task Order, the Contractor shall provide documentation and support reviews necessary for DOE to obtain a Disposal Authorization Statement per DOE Order 435.1 requirements.

C.5 Mission Support Activities

C.5.1 Liquid and Gaseous Waste Operations and Life Extension (ORNL)

C.5.1.1 Liquid and Gaseous Waste Operations

The desired outcome is safe, reliable, and compliant operation of the ORNL LGWO system for the collection, transfer, storage, treatment, and disposal of LLLW, process wastewater, and gaseous waste generated by DOE-authorized activities.

As authorized by Task Order, the Contractor shall perform facility management (see Table 4 of Attachment C-1, *Facility and Site List*), operation, maintenance, monitoring, waste management, and preparation of required documentation. The Contractor shall plan, manage, and execute maintenance

activities in a proactive and strategic manner that minimizes long-term risks and ensures reliable operation of essential systems and facilities. The Contractor shall also implement material actions to reduce the existing facility maintenance backlog and minimize future backlog. The Contractor shall be knowledgeable of all facility hazards and conditions. The treatment systems primarily serve activities at ORNL; however, other DOE sites and projects (e.g., EMWMF) may use the services of the liquid waste operations through tanker transfers. The Contractor shall coordinate operational plans with the ORNL M&O contractor and other users, as needed.

C.5.1.2 LGWO Infrastructure and Life Extension

The desired outcome is completion of identified necessary life extension repairs and upgrades to ensure long-term reliability of LGWO.

In addition to routine operations and maintenance (described in Section C.5.1.1), LGWO is undergoing life extension repairs and upgrades in response to an engineering evaluation performed in 2016 (*Liquid and Gaseous Waste Operations Engineering Evaluation and Extended Life Study* [STJ-02LGWO-D706]). The Contractor shall implement the following recommendations from the report, or other necessary life extension or risk reduction initiatives, -as authorized by Task Order:

- Conduct decommissioning and implement cold stand-by for Building 3544 operations.
- Perform inspection and replacement of piping and pumping systems (above-ground and below-ground).
- Evaluate and clean and reseal diked areas around LGWO systems.
- Evaluate new technologies that could enhance treatment and reduce operations and maintenance costs in the process waste and LLLW systems.
- Implement source reduction recommendations for the LLLW system (e.g., potential elimination of LLLW feeds from 3517, 3092 scrubber).
- Complete the cleanout of contaminated debris from Building 7877, located adjacent to the Melton Valley Storage Tanks.

C.5.2 Transuranic and Solid Waste Debris Storage and Shipment Support (ORNL)

C.5.2.1 TRU-Melton Valley Solid Waste Storage Facility Operations and Maintenance

The desired outcome is safe storage of the TRU <u>and legacy</u> waste inventory until disposal at WIPP<u>or</u> <u>other offsite disposal facilities</u>.

As authorized by Task Order, the Contractor shall provide safe, compliant, and cost-effective <u>operations</u> and <u>maintenance of the Melton Valley Solid Waste Storage Facilities and</u> storage of solid contact-handled (CH) and remote-handled (RH) TRU waste in RCRA-permitted storage facilities located at ORNL and at the TWPC, and shall facilitate long-term cost reduction by closing each storage facility as inventory is removed. The Contractor shall accept CH and/or RH TRU waste from <u>OREM cleanup and/or</u> other EM sites or facilities for storage and/or disposal as directed by DOE.

The remaining TRU <u>and legacy</u> waste inventory at ORNL and the TWPC is stored <u>and managed</u> primarily in the following facilities:

- 7572 and 7574 CH-TRU Waste Storage Facilities
- 7826 and 7834 Below-grade TRU Waste Storage Cells
- 7855 RH-TRU Cask Bunker
- 7860A RH-TRU Rubb Tent

- 7879 CH-TRU/LLW Staging Storage Facility
- 7883 RH-TRU Cask Bunker
- 7823, 7823B, 7823C, 7823D, and 7823E Waste Storage Facilities
- 7824 and 7826 Waste Storage Facilities
- Portable Unit 1
- CT8-7800 Waste Storage Pad
- 7827 and 7829 RH LLW Storage Wells
- 7822K Radioactive Waste Storage Pad
- 7898A Trench 13
- 7586 RAD Support Trailer
- 7667 Chemical Detonation Facility
- 7823G Crane Storage
- 7824A Waste Examination and Assay Facility Office Trailer
- 7831 Field Office
- 7831F Flammable Storage Unit
- 7860B Retrievable RH TRU Storage Pad
- 7888 Cask Loading facility

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• TWPC Buildings: 7880, 7880A, 7880BB, and 7880QQ

The Contractor shall perform CH and/or RH TRU waste transfers and movement, and shall maintain this capability to retrieve waste from accessible ORNL storage facilities and deliver it to the TWPC as required for storage and/or shipment. All transportation activities shall be in compliance with transportation requirements in the Transportation Documented Safety Analysis and applicable regulations. The Contractor shall receive and store newly generated TRU waste from the DOE Office of Science. Upon the Contractor's completion of legacy TRU waste shipments, the ORNL TRU waste storage facilities (containing the stored newly generated waste) will be transferred from OREM to the DOE Office of Science.

The Contractor shall work with the TWPC incumbent contractor to establish a 45-day transition period to assume responsibility for the TWPC upon completion of the incumbent's contract. Upon transfer of the TWPC, the Contractor shall operate and maintain the TWPC to ensure safe interim storage of the remaining CH-TRU and RH-TRU inventory and shall perform all activities necessary to support completion of shipments to the WIPP in accordance with applicable requirements. The Contractor shall serve as the shipper of record for TRU waste shipped for disposal. The Contractor shall coordinate with the Carlsbad Field Office and WIPP for waste transportation, and shall participate in the National TRU Program's corporate board meetings.

C.5.2.2 TRU Shipment Support

The desired outcome is shipment of the CH-TRU and RH-TRU waste inventory to WIPP.

As authorized by Task Order, the Contractor shall perform shipment support activities including but not limited to the following:

Perform CH-TRU drum movement as needed to support management of materials-at-risk.

- Operate TWPC facility equipment while supporting the WIPP Central Characterization Program for loading and shipment of previously packaged and certified CH-TRU inventory in accordance with the Carlsbad Field Office shipping schedule.
- Operate TWPC facility equipment while supporting the WIPP Central Characterization Program in loading RH-TRU removable lid canisters from RH overpacks into RH-72B casks for shipment in accordance with the Carlsbad Field Office shipping schedule.
- Dispose of RH overpacks and empty concrete overpacks as needed.
- Upon completion of TRU waste shipments, the Contractor shall maintain the TWPC Buildings (7880, 7880A, 7880BB, 7880QQ, and others as directed) in warm standby and integrate them into the Contractor's ORNL surveillance and maintenance (S&M) program (see Section C.5.3.1).

C.5.2.3 TRU Sludge Processing Facility Operations

The TRU Sludge Processing Facility Operations will include activities necessary to complete the TRU sludge solidification campaign including waste certifications and transportation to the Nevada National Security Site disposal site.

C.5.3 ORNL Surveillance and Maintenance of EM Facilities and Sites and Environmental Monitoring

C.5.3.1 ORNL Surveillance and Maintenance

The desired outcome is the ORNL EM excess contaminated facilities maintained in a safe configuration until demolition and/or remediation is complete.

As authorized by Task Order, the Contractor shall perform <u>surveillance and maintenance S&M</u>-of <u>EMowned</u>ORNL facilities and sites <u>under EM responsibility</u> (see Table 4 of Attachment C-1, *Facility and Site List*), using a graded approach to ensure a safe and stable condition is maintained pending facility demolition and/or site remediation, in accordance with applicable safety, regulatory (i.e., site studies and/or characterization), and security requirements through the Contract period, or until the facilities or sites are dispositioned. The Contractor shall plan, manage, and execute S&M activities in a proactive and strategic manner that minimizes long-term risks and ensures reliable operation of essential systems and facilities.

The Contractor shall provide all necessary S&M activities, which include but are not limited to scheduled site inspections for status of equipment, structures, and safety parameters; hazard identification and control; radiological surveys; facility access and security control; vegetation control; monitoring and repair of landfill caps; fence and gate repairs; subsidence repair; erosion control and repair; waste and debris pickup and disposal; snow removal; roof repair and maintenance; filter testing and replacement; instrument calibration and maintenance; and heating, ventilation, and air conditioning and other building systems (e.g., fire protection) maintenance. The Contractor shall proactively implement material actions to reduce the existing facility maintenance backlog and minimize future backlog. In addition, the Contractor shall characterize and dispose of all wastes generated from S&M activities. The Contractor shall ensure current knowledge and proper management of all facility hazards and conditions. Cleanup actions shall be considered as a viable alternative to continued S&M where appropriate.

The Contractor shall conduct required S&M in compliance with laws, regulations, permits, agreements, DOE Orders, and decision documents. These activities shall ensure that each post-remediation site or facility remains in a safe and stable condition, that monitoring and safety-related systems and equipment remain operable, that site security and access controls are continuously provided, that structural integrity is maintained, and that the requirements of applicable CERCLA decisions are followed.

In addition to the facilities currently included in the ORNL S&M Program, the Building 3019 and Building 2026 complexes may become part of this Contract's S&M scope after the incumbent contractor completes uranium-233 processing activities. When directed by DOE, the Contractor shall work with the Uranium-233 Disposition Project contractor to establish a 45-day transition period in order to assume responsibility for S&M upon completion of the incumbent's contract.

C.5.3.2 ORNL Environmental Monitoring

The desired outcome is the compliant performance of required ORNL environmental monitoring and submittal of ORNL information for environmental monitoring reports as discussed in Section C.5.4.2.

As authorized by Task Order, the Contractor shall conduct required environmental monitoring and reporting for remediated sites in compliance with laws, regulations, permits, agreements, DOE Orders, and decision documents. The Contractor shall implement the requirements of the *Bethel Valley Administrative Watershed Remedial Action Report Comprehensive Monitoring Plan* (DOE/OR/01-2478) and *Melton Valley Monitoring Plan* (DOE/OR/01-1982&D1/R1), which summarize the performance and baseline environmental media monitoring and engineering controls, land use controls, and land use control verification requirements of the RODs associated with ORNL. The Comprehensive Monitoring Plan shall be revised as necessary to include the requirements identified in approved completion reports and in future RODs.

The Contractor shall monitor all sediment, surface water, and groundwater as required to model contaminant transport, determine remedial effectiveness, and evaluate and determine exit pathways. The Contractor shall also provide the necessary monitoring to ensure effectiveness is maintained following remedial actions. The Contractor shall evaluate monitoring data, provide statements and certifications as to the effectiveness of remedial actions and implementation of land use controls, and provide necessary reports on such findings. The Contractor shall perform environmental monitoring to verify the effectiveness of remedial actions and the protection of ecological receptors, and to support future decision-making.

Air, surface water, and groundwater shall be monitored as appropriate to verify compliance with applicable or relevant and appropriate requirements (ARARs) and to verify offsite contaminant releases are at acceptable levels. Post-remediation radiation surveys and sampling (including sampling for radionuclides and non-radionuclides such as metals, organics, and polychlorinated biphenyls [PCBs]) shall be performed to ensure that remedial actions are protective of human health and the environment.

The Contractor shall also conduct environmental monitoring and reporting in support of emergency response activities.

C.5.3.3 Molten Salt Reactor Experiment Enhanced Maintenance

The desired outcome is the completion of necessary life extension repairs and upgrades to reduce risks and maintain the MSRE facility in a safe state until decontamination and demolition.

In addition to routine S&M (described in Section C.5.3.1), the MSRE is undergoing life extension repairs and upgrades in response to, and consistent with, the engineering evaluation *Molten Salt Reactor Experiment Engineering Evaluation and Extended Life Study* (STJ-02MSRE-D992) performed in 2016. The Contractor shall implement the following recommendations from the report, or other necessary life extension repairs and risk reduction initiatives, as authorized by Task Order:

- (a) Complete upgrades to provide continuous ventilation of the tanks, eliminating the need for periodic pump down to remove hazardous gases.
- (b) Complete upgrade of electrical systems for critical components and shut down non-critical systems.

(c) Complete actions necessary to ensure long term stability of the facility, as necessary.

C.5.4 Y-12 Surveillance and Maintenance of EM Facilities and Sites and Environmental Monitoring

C.5.4.1 Y-12 Surveillance and Maintenance

The desired outcome is the Y-12 EM excess contaminated facilities maintained in a safe configuration until demolition and/or remediation is complete.

As authorized by Task Order, the Contractor shall perform S&M of EM-owned Y-12 facilities and sites (see Table 5 of Attachment C-1, *Facility and Site List*), using a graded approach, to ensure a safe and stable condition pending facility demolition and/or site remediation in accordance with applicable safety, regulatory (including site studies and/or characterization), and security requirements throughout the Contract period or until the facilities or sites are dispositioned. The Contractor shall plan, manage, and execute S&M activities in a proactive and strategic manner that minimizes long-term risks and ensures reliable operation of essential systems and facilities.

The Contractor shall provide all necessary S&M activities, which include but are not limited to scheduled site inspections for status of equipment, structures, and safety parameters; hazard identification and control; radiological surveys; facility access and security control; vegetation control; monitoring and repair of landfill caps; fence and gate repairs; subsidence repair; erosion control and repair; waste and debris pickup and disposal; snow removal; roof repair and maintenance; filter testing and replacement; instrument calibration and maintenance; and maintenance of heating, ventilation, and air conditioning and other building systems (e.g., fire protection). The Contractor shall proactively implement material actions to reduce the existing facility maintenance backlog and minimize future backlog. In addition, the Contractor shall characterize and dispose of all waste generated from S&M activities. The Contractor shall ensure current knowledge and proper management of all facility hazards and conditions. Cleanup actions shall be considered as a viable alternative to continued S&M where appropriate.

The Contractor shall conduct required S&M in compliance with laws, regulations, permits, agreements, DOE Orders, and decision documents. These activities shall ensure that each post-remediation site or facility remains in a safe and stable condition, that monitoring and safety-related systems and equipment remain operable, that site security and access controls are continuously provided, that structural integrity is maintained, and that the requirements of applicable CERCLA decisions are followed.

C.5.4.2 Y-12 Environmental Monitoring

The desired outcome is compliant performance of required Y-12 environmental monitoring and the submittal of required environmental monitoring reports for the ORR.

As authorized by Task Order, the Contractor shall conduct required environmental monitoring and reporting for remediated sites in compliance with laws, regulations, permits, agreements, DOE Orders, and decision documents. The Contractor shall implement the requirements of the *Bear Creek Valley Administrative Watershed Remedial Action Report Comprehensive Monitoring Plan* (DOE/OR/01-2457&D3), *East Fork Poplar Creek and Chestnut Ridge Administrative Watershed Remedial Action Report Comprehensive Monitoring Plan* (DOE/OR/01-2466&D4), and *Lower Watts Bar Reservoir and Clinch River/Poplar Creek Watershed Remedial Action Report Comprehensive Monitoring Plan* (DOE/OR/01-1820&D3), which summarize the performance and baseline environmental media monitoring and engineering controls, land use controls, and land use control verification requirements of the RODs associated with Y-12. The Comprehensive Monitoring Plan shall be revised as necessary to include the requirements identified in approved completion reports and in future RODs.

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The Contractor shall coordinate EM Program environmental monitoring throughout the ORR and monitor all sediment, surface water, and groundwater as required to model and determine contaminant transport, determine remedial effectiveness, and evaluate and determine exit pathways. The Contractor shall also provide the necessary monitoring to ensure effectiveness is maintained following remedial actions. The Contractor shall evaluate monitoring data, provide statements and certifications as to the effectiveness of remedial actions and implementation of land use controls, and provide necessary reports on such findings. The Contractor shall perform environmental monitoring to verify the effectiveness of remedial actions and the protection of ecological receptors and to support future decision-making.

Air, surface water, and groundwater monitoring shall be employed as appropriate to verify compliance with ARARs and to verify offsite contaminant releases are at acceptable levels. Post-remediation radiation surveys and sampling (including sampling for radionuclides and non-radionuclides such as metals, organics, and PCBs) shall be performed to ensure that remedial actions are protective of human health and the environment.

The Contractor shall prepare required ORR environmental monitoring reports including but not limited to the Remediation Effectiveness Report, the Annual Site Environmental Report, and CERCLA five-year reviews. The Contractor shall submit the environmental monitoring reports in sufficient time to meet regulatory commitments.

The Contractor shall coordinate, plan, and implement groundwater activities consistent with the Groundwater Remediation Strategy. This may include, but is not limited to groundwater modeling, monitoring, and analysis of pathways. The Contractor shall also conduct environmental monitoring and reporting in support of emergency response activities.

C.5.5 CERCLA Disposal Facilities and ORR Landfills Management and **Operations (Y-12)**

The desired outcome is the continuous, compliant, and cost-effective operation and maintenance of the OREM onsite waste disposal facilities.

C.5.5.1 EMWMF and EMDF Management, Waste Acceptance Criteria Attainment, and **Operations**

The EMWMF currently provides disposal capacity for CERCLA waste resulting from ORR projects and activities. The planned construction of the EMDF (see Section C.4) will increase the onsite ORR disposal capacity without interruption.

As authorized by Task Order, the Contractor shall operate and maintain the EMWMF (see Table 5 of Attachment C-1, Facility and Site List) and EMDF (when constructed) for disposal of waste from all ORR CERCLA projects and activities in accordance with DOE Order 435.1, applicable Disposal Authorization Statements, appropriate CERCLA decision documents, applicable FFA primary documents, and Section J. Attachment J-2, Requirements Sources and Implementing Documents. Responsibilities include, but are not limited to:

- Placement of received waste materials in compliance with all approved operating requirements and the ROD
- Operation and maintenance of the facilities in accordance with applicable regulatory requirements, well sampling and monitoring to ensure integrity of liner systems, maintenance of an enhanced operational cover to minimize the volume of water coming in contact with waste, management of water to maintain facility operations, and closure of existing cells in compliance with applicable regulatory requirements and DOE directives

- Management of the WAC process in accordance with approved plans and procedures to maintain compliance with regulatory requirements while ensuring effective use of disposal capacity
- Assisting waste generators with preparation of waste lot profiles and review and approval of WAC compliance for all waste-generating projects
- Integration of waste generation forecast information from all generating projects into the waste generation forecasting and waste shipment forecasting systems
- Preparation of the annual phased construction completion report that summarizes CERCLA disposal facility capacity utilization during the previous year and forecasts remaining capacity and utilization rates

C.5.5.2 ORR Sanitary, Industrial, and Construction and Demolition Landfills

As authorized by Task Order, the Contractor shall operate and maintain the following sanitary and industrial landfills and spoils areas (see Table 5 of Attachment C-1, *Facility and Site List*):

- Landfill IV, which accepts classified industrial and institutional solid waste
- Landfill V, which accepts sanitary and industrial solid waste
- Landfill VII, which accepts construction and demolition solid waste
- Spoils Area, which accepts clean, suitable sanitary and industrial earthen fill material that would otherwise consume valuable landfill volume
- Excess Spoils Areas (Landfills V and VII)

The landfills and spoils areas shall be operated in accordance with permits, regulations, and DOE Orders. The Contractor shall accept and disposition waste meeting the relevant WAC for each landfill from approved ORR generators.

The Contractor shall be responsible for the design and expansion (construction) of the ORR landfills as required to maintain adequate disposal capacity.

C.5.6 Outfall 200 Mercury Treatment Facility (Y-12)

The desired outcome is successful commissioning and subsequent reliable operations of the Outfall 200 MTF.

The Oufall 200 MTF is being constructed as part of CERCLA actions to reduce mercury levels in East Fork Poplar Creek. The objective is compliance with ambient water quality criteria and assistance in controlling mercury discharges during cleanup of the West End Mercury Area.

As authorized by Task Order, the Contractor shall accept operational responsibility for the Outfall 200 MTF from the DOE prime construction contractor upon certification by the Contractor's test director (See Section C.5.6.1, MTF Construction Support) that construction system acceptance testing and contractor demobilization have been successfully completed. Systems and facility turnover may occur in phases and the Contractor may be requested to accept operational responsibility for systems and facilities as they are turned over from the DOE prime construction contractor prior -to full operational responsibility for the Outfall 200 MTF.

Roles and responsibilities for the contractor entities involved in the MTF are summarized in Section J, Attachment J-3, *Site Services and Interface Requirements*.

C.5.6.1 MTF Construction Support

The Contractor shall provide construction support to OREM during the MTF construction by another OREM prime contractor. Roles and responsibilities for the contractor entities involved in the MTF are summarized in Section J, Attachment J-3, *Site Services and Interface Requirements*.

Title III Services During Construction:

During construction, the Contractor shall provide Title III engineering services defined as processing field changes, providing facility safety support for design changes, and developing engineering as-built drawings.

Project Management and Oversight Support During Construction:

During construction, the Contractor shall provide ongoing project management support for construction management and integration functions including scheduling; cost and progress control, tracking, and reporting; and risk management. The Contractor shall also provide assistance to OREM for document control and management for non-business-sensitive documents during the balance of the MTF construction contract. The Contractor shall provide support to OREM for construction management and oversight during MTF construction. This includes providing onsite administration and support to DOE in oversight; supporting progress meetings and reporting; reviewing contractor submittals during MTF construction; monitoring the construction contractor's adherence to contract requirements (including the construction contractor's factory acceptance testing and construction acceptance testing), policies, and procedures; performing special inspections; and assisting with oversight of environmental compliance and quality assurance activities through closeout of the MTF construction contract. The Contractor shall prepare an FFA phased construction completion report for regulatory approval.

Acceptance Testing:

The Contractor shall prepare and revise, if necessary, acceptance test procedures in accordance with the *Outfall 200 Mercury Treatment Facility, Startup Test Plan* (UCOR-4931); provide a test director and provide test engineers during system acceptance testing (acceptance tests will be conducted by the construction contractor); prepare the system acceptance test reports; and perform special inspections. The test director shall certify and present test reports upon successful completion of the construction system acceptance testing.

Checkout, Testing and Commissioning Plan:

The Contractor shall prepare a commissioning plan including a commissioning schedule, operational testing and inspection plans, operational test procedures, and operational inspection and acceptance reports. The Contractor shall implement the checkout, testing, and commissioning plan under Section C.5.6.2.

C.5.6.2 MTF Checkout, Testing, and Commissioning

The Contractor shall perform the following activities as part of facility acceptance, commissioning, and transition to operations:

- Receive the construction transition package from the DOE prime construction contractor and accept responsibility for the facility upon final demobilization of the construction contractor (turnover).
- Perform operational planning, preparation, and walkdown of procedures and other work control documentation to Contractor requirements.
- Establish safety documentation for facility operations, perform any necessary additional system
 operability testing, establish any necessary support contracts for materials and services, and order
 initial inventories of treatment chemicals, waste containers, and any other materials or equipment
 necessary for operation.

- Implement the Checkout, Testing, and Commissioning Plan prepared under Section C.5.6.1, including operations acceptance testing (hot tests) to demonstrate fully integrated system functionality and validate plant operating procedures.
- Undergo a readiness activity prior to startup and operation of the facility in accordance with initial operation of a non-nuclear facility.
- Prepare CD-4, Approve Start of Operations, documentation for DOE approval.
- Develop a transition to operations plan that describes the process for implementing the transition to operations activities.

C.5.6.3 MTF Operations

The Contractor shall operate and maintain the MTF to treat Outfall 200 effluent water in accordance with applicable regulatory requirements. The Contractor shall develop and implement a monitoring plan in accordance with the *Amendment to the Record of Decision for Phase I Interim Source Control Actions in the Upper East Fork Poplar Creek Characterization Area, Oak Ridge, Tennessee* (DOE/OR/01-2697&D2) to ensure treatment optimization, evaluate the effectiveness of treatment on mercury levels at East Fork Poplar Creek, and evaluate compliance with the ROD. The Contractor shall prepare monitoring and operational data reports and information required to respond to inquiries from regulators and other stakeholders.

C.5.7 ETTP Site Closure, Historic Preservation, <u>Surveillance and Maintenance</u>, <u>and</u> Environmental Monitoring

The desired outcome is closure of ETTP as a DOE site and implementation of historic preservation commitments, surveillance and maintenance, and environmental monitoring responsibilities.

C.5.7.1 ETTP Site Closure

As authorized by Task Order, the Contractor shall be responsible for supporting ongoing DOE responsibilities associated with the transfer of infrastructure and real property at ETTP.

The Contractor shall perform the following activities, including but not limited to:

- Meeting DOE obligations under existing agreements with the City of Oak Ridge and providing support to DOE for negotiating new agreements or renegotiating existing agreements, as necessary
- Preparing the FFA Removal Action Report summarizing phased construction completion reports
 that address the scope completed as a result of the Action Memorandum for the Remaining
 Facilities Demolition Project at East Tennessee Technology Park, Oak Ridge, Tennessee
 (DOE/OR/01-2049&D2)
- Performing radiological surveys in accordance with DOE release criteria
- Performing repairs and/or modifications along Poplar Creek and the Clinch River to ensure safe configuration
- Collecting samples and shipping sludge from an off-site water treatment plant for treatment and disposal as needed
- Removing, repairing, reconfiguring, and/or replacing site infrastructure including above-ground and underground utilities, roads, fences, and other elements to ensure compliance with applicable codes, or as required to support transfer and as directed by DOE
- Relocating or dispositioning remaining excess personal property, materials, and equipment consistent with DOE Directives, applicable regulations, and external agreements

• Demobilizing ETTP site operations including personnel, support structures, and equipment in a manner that effectively supports execution of cleanup scope at ORNL and Y-12

C.5.7.2 ETTP Historic Preservation

The K-25 Building footprint is part of the Manhattan Project National Historical Park. The desired outcome is completion of the remaining stipulations of the *Memorandum of Agreement for Decommissioning and Demolition of the K-25 Site and Interpretation of the East Tennessee Technology Park on the Oak Ridge Reservation*.

As authorized by Task Order, the Contractor shall complete delineation of the K-25 footprint and fabricate and install nine previously fabricated wayside exhibits. The Contractor shall also manage ETTP historic preservation artifacts, maintain a database of identified artifacts, and support DOE in property movements for excess artifacts not retained, as described in the Memorandum of Agreement. As authorized by Task Order, the Contractor shall complete design and construction of facilities and exhibits necessary to meet DOE historic preservation obligations at ETTP.

C.5.7.3 ETTP Surveillance and Maintenance, and Environmental Monitoring

As authorized by Task Order, the Contractor shall perform surveillance and maintenance for ETTP areas that remain under DOE control, on which buried wastes remain, or that host ongoing groundwater remediation operations (see Table 3 of Attachment C-1, *Facility and Site List*). Surveillance and maintenance activities include, but are not limited to, inspections, land use control administration, environmental media monitoring, monitoring well maintenance, site mowing, snow and ice removal from sidewalks and parking areas, sidewalk and parking lot repairs, site utilities, historic preservation facility operations, and long-term remedy (chromium pump and treat system) operation and maintenance, and reporting.

As authorized by Task Order, the Contractor shall implement the requirements of the *East Tennessee Technology Park Administrative Watershed Remedial Action Report Comprehensive Monitoring Plan* (DOE/OR/01-2477&D3), which summarizes the performance and baseline environmental media monitoring and engineering controls, land use controls, and land use control verification requirements from the RODs associated with ETTP. The Comprehensive Monitoring Plan shall be revised as necessary to include the requirements identified in approved completion reports and in future RODs. Should the RODs associated with ETTP be changed or modified for any reason, the Contractor shall implement those modified or changed requirements as applicable.

The Contractor shall conduct required S&M, environmental monitoring, and reporting for remediated sites (see Table 3 of Attachment C-1, *Facility and Site List*) in compliance with laws, regulations, permits, agreements, DOE Orders, and CERCLA decision documents to ensure the requirements of applicable CERCLA decisions are followed. The Contractor shall maintain and implement a ground excavation and penetration permitting process that ensures necessary measures are taken prior to performing ground excavation or penetration to avoid impacts to or from active underground utilities, underground inactive structures, residual contamination, and/or hazardous waste. The Contractor shall perform all required sediment, surface water, and groundwater monitoring, determine remedial effectiveness, and evaluate exit pathways. The Contractor shall evaluate monitoring data, provide statements and certifications as to the effectiveness of remedial actions and implementation of land use controls, and provide necessary reports on such findings. These activities collectively are intended to ensure that each post-remediation site or facility remains in a safe and stable condition, monitoring and safety-related systems and equipment remain operable, security and access controls are continuously provided, and structural integrity is maintained, as applicable.

The Contractor shall perform environmental monitoring to verify the effectiveness of remedial actions and the protection of ecological receptors and to support future decision-making. Surface water and groundwater shall be monitored as appropriate to verify compliance with ARARs and reduction of offsite contaminant releases to acceptable levels. Post-remediation radiation surveys and sampling (including sampling for radionuclides and non-radionuclides such as metals, organics, and PCBs) shall be performed to ensure remedial actions are protective of human health and the environment.

The Contractor shall provide ETTP updates to required environmental monitoring reports including but not limited to the Remediation Effectiveness Report, the Annual Site Environmental Report, and CERCLA five-year reviews.

C.5.8 Legacy Waste Disposition

The desired outcome is the efficient disposition of legacy waste as listed in Section J, Attachment J-12, Difficult to Dispose of Waste and in accordance with the Site Treatment Plan for Mixed Wastes on the U.S. Department of Energy Oak Ridge Reservation, as applicable. These wastes include, but are not limited to:

- Shielded transfer tanks
- Casks and containers stored on the 7822-K pad
- Dioxin and furan-coded waste
- Mercury
- Radioisotope thermoelectric generators
- Sodium and lithium hydride shields

These wastes and materials have been accumulated for treatment and disposal pending development of appropriate technologies, availability of disposal sites, and/or availability of funding. The Contractor shall treat and/or dispose of these wastes as authorized by Task Order.

C.5.9 Infrastructure Enhancements

C.5.9.1 Infrastructure for ORNL and Y-12 Cleanup

The desired outcome is infrastructure that will house the cleanup workforce, provide equipment and material laydown areas, and support work activities for the ORR Cleanup Contract scope.

As authorized by Task Order, the Contractor shall design, construct, and/or provide for new infrastructure or expansion of existing infrastructure.

C.5.9.2 Design Basis Threat Mitigation

The desired outcome is compliance with DOE Order 470.3, Design Basis Threat (DBT) Order.

As authorized by Task Order, the Contractor shall complete security risk assessments and vulnerability analyses and implement approved strategies to mitigate the risk of design basis threats pursuant to DOE Order 470.3.

C.6. Core Functions

The following sections define the programs that must exist to safely and effectively perform the cleanup mission of the ORR Cleanup Contract. The requirements and associated implementing instructions established under these programs shall be applied to all work included in the PWS.

The desired outcome is the efficient performance of general program infrastructure and support activities necessary for the execution of the ORR Cleanup Contract, as authorized by Task Order.

C.6.1 Central Services

C.6.1.1 Project Support Performance Requirements

The following sections define the programs that must exist to safely and effectively perform the cleanup mission for the ORR Cleanup Contract and related facilities. The requirements and associated implementing instructions established under these programs shall be applied to all work within the PWS.

Project Management

- (a) Successful execution of the project management work scope will ensure cost and schedule efficiency while minimizing programmatic risks. The Contractor shall ensure that project management practices are used in the performance of work including the development of project management plans, baselines, disciplined change control processes, and service level agreements.
- (b) The Contractor shall prepare and submit for DOE approval a project management plan consistent with the requirements in DOE Order 413.3, *Program and Project Management for the Acquisition of Capital Assets*. The capital asset projects do not need to be standalone project management plans and instead may be an appendix to the project management plan.
- (c) The Contractor shall provide all management and technical information to:
 - (1) Meet the requirements of DOE Order 413.3, when applicable.
 - (2) Support the budget formulation activities, including but not limited to emerging work items list, budget formulation input (including Integrated Priority List), the fall limited budget update submission, budget scenario development, and budget presentations such as public and regulatory briefings, etc.
 - (3) Meet the data requirements of the DOE Integrated Planning, Accountability, and Budgeting System (IPABS) and the Project Assessment and Reporting System (PARS II). Data for all scope authorized by Task Order, including operations activities and capital projects less than \$50 million or prior to CD-2, shall be uploaded into PARS II in accordance with the "Contractor Project Performance Upload Requirements" document maintained by the DOE Office of Project Management.
 - (4) Ensure transparency in project performance and efficiency in project execution.
 - (5) Support audits, evaluations, and external technical reviews.
 - (6) Support other DOE project performance assessments and information needs.
- (d) All project management information developed under this Contract shall be accessible electronically by DOE. The desired outcome is predictable and consistent Contractor performance aligned to customer needs conducted within annual and multi-year baselines.

Project Integration and Control and Earned Value Management

(a) The Contractor shall provide an Earned Value Management System (EVMS) Description that complies with the requirements of Section H clause *Earned Value Management System*, the *Electronic Industries Alliance EIA-748 Earned Value Management System Acceptance Guide* and *EIA-748 Earned Value Management Intent Guide*, and DOE Order 413.3.

- (b) The EVMS Description shall describe the management processes and controls that shall be used to implement a compliant EVMS, manage and control work, and complete Contract requirements.
- (c) The EVMS Description shall include:
 - (1) The baseline development process and the hierarchy of documents that shall be used to describe and maintain the Performance Measurement Baseline (PMB)
 - (2) Identification of the systems, tools and software, and integration of these systems with the work breakdown structure (WBS) and accounting systems and data
 - (3) The process the Contractor intends to use for earned value management, configuration control, interface control, and document control
 - (4) The Contractor's project baseline change control process
 - (5) The Contractor's process for handling changes that are only impacts to costs and are not identified as a schedule impact
 - (6) The organizational breakdown structure, including roles and responsibilities of each major organization and identification of key management personnel
 - (7) A list of project software the Contractor proposes to use for project control
- (d) The Contractor shall comply with the requirements of the Section H Clause, DOE-H-2024, *Earned Value Management System* and, if required, have the EVMS evaluated against the EIA-748 standard by a qualified, independent third party selected by the DOE Office of Project Management. Upon completion of the evaluation and closure of all corrective actions, DOE Office of Project Management will certify the Contractor's EVMS as compliant with the EIA-748 standard. Subsequent to the initial evaluation and certification, DOE Office of Project Management may at any time require the Contractor to repeat the evaluation and certification process. The Contractor shall provide all necessary support to conduct the initial and any subsequent evaluations and closure of all corrective actions.
- (e) The Contractor shall also flow down EVMS requirements in accordance with the Section H Clause, DOE-H-2024, *Earned Value Management System*.

Performance Measurement Baseline

- (a) The PMB shall be an integrated and traceable technical scope, schedule, and cost execution baseline that encompasses all activities to execute the requirements of this Contract; informs and is integrated with other site contractors' life-cycle scope, schedule, and cost baseline, as applicable; and enables safe, effective, and efficient advancement and completion of the site mission.
- (b) The PMB shall include the following:
 - (1) Technical Scope: The following baseline documents shall be viewed collectively as the technical scope for the cost/schedule control system:
 - (i) Contract PWS and other sections that define work scope and requirements
 - (ii) Waste site and facility lists
 - (iii) Approved interface agreements

- (iv) WBS dictionary sheets (the WBS submittal shall include a data column which cross references the WBS elements at the lowest level to the appropriate Contract Line Item Number)
- (c) The PMB shall comply with the following requirements:
 - (1) The WBS shall encompass all activities required in this Contract and provide the basis for all project control system components, including:
 - (i) Estimating
 - (ii) Scheduling
 - (iii) Budgeting
 - (iv) Project performance reporting (as required under this contract)
 - (2) Control accounts within the WBS shall be identified.
 - (3) The baseline and management thereof shall comply with EIA-748 *Earned Value Management Systems* and DOE Order 413.3.
- (d) The schedule shall comply with the following requirements:
 - All significant external interfaces, regulatory and Defense Nuclear Facilities Safety Board commitments, and government-furnished services and information dependencies shall be included.
 - (2) The schedule shall be an activity-based, resource-loaded, logical network-based and integrated plan that correlates to the WBS and is vertically traceable to the EVMS control accounts and aligns with the Contractor's field schedules.
 - (3) The schedule shall include earned value method at the activity level and be capable of summarizing from control accounts to higher WBS levels.
 - (4) Any additional working level schedules deemed necessary by the Contractor shall be integrated with the PMB and be able to provide earned value reporting in compliance with EIA-748.
 - (5) The PMB cost estimate shall include project resource plans, detailed resource estimates, basis of estimates, budgetary requirements, and identification of direct costs, indirect costs, management reserve, and fee.
 - (6) The method used to determine earned value shall be identified for each control account.
 - (7) The schedule shall be accessible to DOE upon request.
- (e) The PMB shall be logically tied, driven, and integrated with:
 - (1) Financial system(s) for consistency and accurate reporting of information with traceability to budget and reporting requirements
 - (2) DOE, congressional, regulatory, and external commitments
 - (3) Performance milestones including contract performance incentives and other performance measures established by DOE
- (f) Performance Measurement Baseline Submittals

- (1) The Contractor shall develop and submit an initial PMB that is representative of the initial Task Order scopes of work. Subsequent updates to the PMB will occur as each Task Order is negotiated and awarded and implemented into the PMB. These proposed PMB updates, for additional Task Order work only, will be submitted as part of the task ordering process to the CO for DOE and Contractor negotiation and DOE approval as part of the Contractor's Task Order Proposals. The Contractor shall comply with the requirements of Section H, *Task Ordering Procedure*. The Contractor shall also follow the requirements of their EVMS Description requirements for baseline change control process.
- (2) The Contractor shall provide the WBS, WBS dictionary data, and basis of estimate data in either Microsoft Word© or Microsoft Access© format. Cost data shall be provided in Microsoft Access© or Excel© format and the schedule shall be provided utilizing the current version of Primavera Systems, Inc., Enterprise for Construction© software unless agreed to otherwise by DOE.
- (3) The Contractor shall provide additional data that may be required by DOE for development of the site-wide life-cycle baseline and DOE Integrated Master Plan (IMP).
- (4) The Contractor shall support DOE External Independent Review and Energy Systems Acquisition Advisory Board review of the initial submittal of the PMB and follow-on reviews of annual updates.

C.6.1.2 Project Performance Reporting

The Contractor shall provide DOE with the necessary project performance information to support budget planning and execution; project planning and execution; project performance reporting, audit and evaluation; and other DOE performance assessment and information needs.

Monthly Performance Report

- (a) The Contractor shall submit and transmit to DOE a monthly performance report representing the prior month's performance by the 12th Government work day of the following month.
- (b) The monthly performance report shall include a summary of overall Contract performance and a separate report for each of the major work scopes and projects at the PWS level shown in Section C.
- (c) The summary of overall Contract performance shall include:
 - (1) Key accomplishments
 - (2) Major issues including actions required by the Contractor and DOE
 - (3) Analysis of funds expenditure, with projections for the Project by fiscal year and life of the Contract
 - (4) Technical scope, schedule, and cost variance analysis, including implications to near-term and long-term milestones and deliverables at risk of being missed
 - (5) Discussion of corrective actions currently in place to address performance issues including initiation date of corrective actions
 - (6) Information on any safety or quality matters that emerged or persisted during the reporting month
- (d) Each of the major project reports shall include:
 - (1) Project manager's narrative assessment including:
 - (i) Significant accomplishments and progress towards completion of project goals and objectives

- (A) Key risks and challenges
- (B) Evaluation of safety performance (including Integrated Safety Management Systems metrics and all recordable injuries, lost-time injuries, and near misses)
- (2) Business structure information to demonstrate ongoing compliance with the requirements of the Section H clause entitled Subcontracted Work
- (3) Project baseline performance including EVMS information using the following Office of Management and Budget Contract Performance Report formats (DID-MGMT-81466):
 - (i) Format 1, DD Form 2734/1, Mar 05, Work Breakdown Structure
 - (ii) Format 2, DD Form 2734/2, Mar 05, Organizational Categories
 - (iii) Format 3, DD Form 2734/3, Mar 05, Baseline
 - (iv) Format 4, DD Form 2734/4, Mar 05, Staffing
 - (v) Format 5, DD Form 2734/5, Mar 05, Explanations and Problem Analysis
- (4) Contract Performance Reports provided in the format forms referenced in Integrated Program Management Report Data Item Description DI-MGMT-81861 unless the Contract specifies otherwise
- (5) Contract Funds Status Report provided in accordance with Data Item Description, DI-MGMT-81468, Contract Funds Status Report, or equivalent
- (6) Baseline schedule status, which reflects progress against the baseline and includes critical path analysis, performance trends, variance discussion(s), and potential issues related to milestones
- (7) Contract estimates to complete and estimates at completion
- (8) A change control section that summarizes the scope, technical, cost, and/or schedule impacts resulting from any implemented actions; and that discusses any known or pending baseline changes and utilization of management reserve
- (9) Project risk assessment, including identification of critical risks, actions planned, and actions taken to address those risks; and potential problems, impacts, and alternative courses of action, including quality issues, staffing issues, assessment of the effectiveness of actions taken previously for significant issues, or the monitoring results of recovery plan implementation
- (10) The project risk assessment to identify the engineering and technology to reduce the risk and uncertainty with the project
- (11) Actions required by DOE, including government-furnished services and information and DOE decisions

Project Review Meetings

The Contractor shall participate in recurring contract and project reviews and be prepared to address any of the information in the monthly report and other information as requested by DOE. A contract or project status meeting shall be conducted at DOE's request to provide interim updates and address issues.

Cost Estimating

(a) Cost estimates shall be credible, well documented, accurate, and comprehensive.

(b) Contractor-developed cost estimates form the basis of the cost baseline of the PMB and are important when evaluating proposed Contract changes. DOE uses these cost estimates for budget formulation, Contract change management, cleanup program planning, establishing a database of estimated and actual costs, and performance measurement. The Contractor shall prepare cost estimates in accordance with the requirements in Section H, Cost Estimating System Requirements and Section H, Task Ordering Procedure of this Contract and using The Twelve Steps of a High-Quality Cost Estimating Process identified by the Government Accountability Office (GAO) in GAO-09-3SP, GAO Cost Estimating and Assessment Guide, for all priced Contract actions exceeding the simplified acquisition threshold.

Scheduling

- (a) The Contractor shall support DOE in the development and maintenance of the DOE IMP through the use of a DOE-provided standardized coding structure. The Contractor's PMB and Integrated Master Schedule (IMS) shall utilize the DOE-provided coding structure to integrate the Contractor's activities and capital asset projects into the DOE IMP. The IMS integrates the operations activities, capital asset projects, and other activities managed by the Contractor into one schedule. DOE will use the individual Contractor IMS to construct the IMP.
- (b) The Contractor shall develop the IMS in accordance with the *National Defense Industrial Association's Planning & Scheduling Excellence Guide* (v3.0), and EIA748 *Guidelines*. The Contractor's IMS shall be resource loaded.

Risk Management

- (a) Successful execution of the site cleanup mission requires an integrated risk management program where crosscutting risks and mitigation actions are identified, communicated, and coordinated with DOE and other site contractors, as applicable. The conduct of risk management shall result in riskinformed prioritization of program, project, and infrastructure investments that facilitate successful project execution and program management.
- (b) The Contractor shall implement a risk management program in compliance with DOE Order 413.3 and DOE Policy Requirements for Management of the Office of Environmental Management's Cleanup Program. The Contractor shall also incorporate the principles of DOE G 413.3-7A, *Risk Management Guide*, and GAO 09 3SP in its risk management process.
- (c) The Contractor shall submit a Risk Management Plan to DOE for approval. The capital asset projects do not need to be standalone risk management plans and instead may be an appendix to the Risk Management Plan. The plan shall identify the processes and procedures that will be implemented to address risk identification, qualitative risk assessment, quantitative risk analysis, risk handling, schedule risk analysis, risk monitoring and reporting, and calculating the recommended management reserve and schedule reserve required for adequate management of Contractor-controlled risk.
- (d) The Contractor shall communicate its risk analysis pertaining to crosscutting decisions to DOE and other site contractors, as applicable, including agreement as to who shall be the lead for managing each risk. These crosscutting impacts shall be quantified in terms of probability, cost, and schedule impact to the overall site cleanup mission where possible.

C.6.1.3 Health and Safety

The desired outcomes are health and safety programs that prevent and/or reduce occupational injuries, illnesses, and accidental losses by providing a safe and healthy workplace.

The Contractor shall provide for health programs, ambulatory care, and emergency care. In addition, the Contractor shall provide for worker health surveillance and personnel monitoring programs, which

include but are not limited to lead, mercury, asbestos, beryllium, and radiation. These services are required to assess, monitor, record data, and provide medical support for current site workers who are or may be exposed to radiological and hazardous materials. The Contractor shall maintain medical records of former workers and make them available for health effects studies as requested by DOE. Medical records shall be maintained in accordance with 10 *CFR* 851 and 29 *CFR* 1910.1020.

The Contractor shall provide the following classes of examinations for initial and continuing assessment of employee health: pre-placement in accordance with the Americans with Disabilities Act (42 United States Code 12101), qualification examinations, fitness for duty, medical surveillance and health monitoring, return-to-work health evaluations, and termination examinations. The occupational medical services shall be informed of job transfers and will determine whether a medical evaluation is necessary. The physician responsible for the delivery of medical services or his/her designee will inform Contractor management of appropriate employee work restrictions.

The Contractor shall provide comprehensive health screening and medical surveillance services for certain OREM Federal employees, identified by OREM management, who conduct oversight of DOE contractor work activities. Services shall include the requirements of 10 *CFR* 851, *Worker Safety and Health Program*, for an Occupational Medicine Program, which include medical surveillance for programs such as Hearing Conservation, Respiratory Protection, Bloodborne Pathogens, and Hazardous Waste Operations and Emergency Response (HAZWOPER).

The Contractor shall meet occupational safety and health requirements (including but not limited to integrated safety management, general safety, industrial safety, electrical safety, fire protection, construction safety, firearms safety, explosives safety, industrial hygiene, pressure safety, and motor vehicle safety) for EM program operations and conditions. Occupational safety requirements (including but not limited to 10 *CFR* 851, 29 *CFR* 1910, and 29 *CFR* 1926) are stipulated in Section J, Attachment J-2, *Requirements Sources and Implementing Documents*.

C.6.1.4 Radiation Protection

The desired outcome is an effective radiation protection program that is protective of the workforce and the public through the use of an effective as-low-as-reasonably-achievable process.

As required in Section J, Attachment J-7, Contract Deliverables, the Contractor shall prepare and submit a Radiation Protection Program that is consistent with 10 CFR 835, Occupational Radiation Protection Program and DOE Order 458.1, Radiation Protection of the Public and the Environment. The Contractor shall conduct site activities in compliance with the DOE-approved Radiation Protection Program to minimize occupational exposure to ionizing radiation. The as-low-as-reasonably-achievable process shall be applied to EM program activities. The Contractor shall also provide radiation exposure monitoring (i.e., dosimetry) and reporting services for OREM representatives and others, as required. Radiation protection requirements are stipulated in Section J, Attachment J-2, Requirements Sources and Implementing Documents.

C.6.1.5 Nuclear Safety

The desired outcome is a compliant nuclear safety program that ensures proper management and safe activities in OREM nuclear facilities.

The Contractor shall develop and maintain safety bases for nuclear facilities, operations, and activities consistent with 10 *CFR* 830, *Nuclear Safety Management*. Readiness determinations for restart of activities and for startup of new activities shall be conducted in accordance with DOE Order 425.1, *Verification of Readiness to Start Up or Restart Nuclear Facilities* to demonstrate readiness to safely start the activity. Nuclear safety requirements are stipulated in Section J, Attachment J-2, *Requirements Sources and Implementing Documents*.

C.6.1.6 Nuclear Criticality Safety

The desired outcome is a compliant nuclear criticality safety program that prevents nuclear criticality accidents and provides proper mitigation of consequences from a nuclear criticality accident.

The Contractor shall establish and maintain a criticality safety program that (1) applies to fissionable materials that are produced, processed, stored, transferred, disposed of, or otherwise handled, (2) evaluates and documents operations with fissionable materials that pose a criticality accident hazard, (3) utilizes a graded approach, (4) provides for prevention and mitigation of consequences to personnel and property from a criticality accident, and (5) addresses nuclear safety requirements established by laws and regulations. Nuclear criticality safety requirements are stipulated in Section J, Attachment J-2, *Requirements Sources and Implementing Documents*.

C.6.1.7 Safety Culture

The desired outcome is a strong safety culture and a safety-conscious work environment. The Contractor shall:

- (a) Adopt and continuously improve organizational culture (Site core values and behaviors), Safety Culture, and Safety Conscious Work Environment, including implementation and utilization of programs/processes that support employees raising concerns without fear of retaliation. These programs/processes include, but are not limited to, the Employee Concerns Program (ECP); the Differing Professional Opinions Process; Ethics and Compliance Program/Process; and Alternative Dispute Resolution;
- (b) Continuously promote a work environment where employees are encouraged to raise concerns. The Contractor shall define expectations, rigorously reinforce those expectations, and take actions to mitigate the potential for a chilling effect;
- (c) Conduct business in a manner fully transparent to DOE. Activities are demonstrated by open, clear, and well-communicated management actions and technical and project documentation. Identified issues and trends are proactively shared with DOE;
- (d) Champion a culture that promotes proactive self-identification and reporting of issues that identifies and takes action on systemic weaknesses leading to sustained continuous self-improvement; and
- (e) Champion a culture that emphasizes the following attributes:
 - Demonstrated safety leadership
 - Risk-informed, conservative decision making
 - Management engagement and time in the field
 - Staff recruitment, selection, retention, and development
 - Open communication and fostering an environment free from retribution
 - Clear expectation and accountability
 - Personal commitment to everyone's safety
 - Teamwork and mutual respect
 - Participation in work planning and improvement
 - Mindful of hazards and controls
 - Credibility, trust, and reporting errors and problems

- Effective resolution of reported problems
- Performance monitoring through multiple means
- Use of operations experience
- Questioning attitude

C.6.1.8 Quality Assurance

The desired outcome is a quality assurance program that ensures products and services provided or performed by the Contractor are of a high quality and meet or exceed stated requirements.

The Contractor shall perform work on site in accordance with applicable quality assurance requirements. Quality assurance requirements are stipulated in the Section E clause *Higher-Level Contract Quality Requirements* (Dec 2014) and Section J, Attachment J-2, *Requirements Sources and Implementing Documents*.

C.6.1.9 Engineering

The desired outcome is an engineering program that performs engineering program functions such as systems engineering, configuration management, design engineering, structural engineering, and safety significant system management.

The Contractor shall provide authorities having jurisdiction expertise (meeting the DOE authority having jurisdiction knowledge requirements) in the areas of electrical and fire protection safety, with authorities as delegated by DOE.

The Contractor shall provide the design authority for the EMDF, MTF, and other designs or design changes, as required. The design authority is responsible for establishing and maintaining the design requirements, ensuring design output documents accurately reflect the design basis, and maintaining design control and ultimate technical adequacy of the design process.

C.6.1.10 Environmental Protection

The desired outcome is an environmental protection program that ensures Contractor activities are conducted in a compliant manner that is protective of the environment.

The Contractor shall comply with applicable federal and state environmental protection requirements in the execution of the Contract. These include but are not limited to CERCLA, RCRA, the ORR Site Treatment Plan, the Clean Air Act, the Clean Water Act, the National Environmental Protection Act, the Toxic Substances Control Act (TSCA), and the ORR FFA. The Contractor shall obtain, maintain, and comply with all environmental permits as required and allowed by law. Environmental protection requirements are stipulated in the Section H clause *Environmental Compliance* and in Section J, Attachment J-2, *Requirements Sources and Implementing Documents*.

C.6.1.11 Environmental Sustainability

The desired outcome is an environmental sustainability program that ensures contract activities meet environmental sustainability requirements.

The Contractor shall ensure compliance with environmental sustainability requirements in accordance with Section J, Attachment J-2, *Requirements Sources and Implementing Documents*, as appropriate for the execution of this Contract. The Contractor shall coordinate with the Y-12 and ORNL M&O contractors in fulfilling these requirements.

C.6.1.12 Federal Facility Agreement and Related Support

The desired outcome is proper administration of the ORR FFA.

The Contractor shall provide database and records management support to the FFA website, controlled copy distribution, FFA appendices, Administrative Record, and solid waste management units and areas of contamination records for the entire ORR. The Administrative Record support will include maintaining all DOE contractor-produced Administrative Record copies and distributing Administrative Record copies (those which can be released to the public) to the DOE Information Center. Records required for post-closure land use controls should be identified and managed appropriately.

The Contractor shall support FFA administration activities including but not limited to budget prioritization information, annual cleanup progress report, tri-annual public involvement plans, technical expertise to support DOE interactions with the Site Specific Advisory Board, preparation of public fact sheets, and press releases.

The Contractor shall manage, update, and archive sampling data referenced in FFA documents in the OREIS database, except for sampling data taken for the purpose of meeting any disposition site WAC. The Contractor shall maintain the OREIS global information system to support utilization of the sampling data. The Contractor will also manage and operate an electronic sample tracking system to support sampling and analysis plans through submission of samples to the laboratory, sample analysis, receipt of electronic and hardcopy results, verification of analyses, invoicing, and submission of results to the OREIS database.

C.6.1.13 Records Management

The desired outcome is a program for management of EM ORR contractor records that ensures such records are properly maintained and/or dispositioned.

The Contractor shall manage records (regardless of media) in accordance with Section J, Attachments J-2 and J-7, *Requirements Sources and Implementing Documents* and *Contract Deliverables*, respectively. All previous EM ORR cleanup contractor records are subject to the maintenance and disposition of the Contractor, including records created prior to the effective date of this contract. Records required for post-closure land use controls should be identified and managed appropriately. The Contractor shall ensure all records are properly scheduled and dispositioned prior to outgoing contract transition.

Records Management Program Plan

The Contractor shall submit a Records Management Program Plan, as required in Task Order 1, Section J-7, *Contract Deliverables*, to document the records management program (records lifecycle - creation/receipt, maintenance/use and disposition) to include, but is not limited to: electronic records, digital signature process, email, classified, audiovisual, quality records, historical records, contaminated, essential records, inventory and file plans, and disposition (transfers and destructions).

Electronic Records Management System (ERMS)

The Contractor shall develop and implement a process to ensure records are created and managed electronically throughout their lifecycle. If records must be scanned, the Contractor shall ensure scanning process, quality control process and images meet all National Archives and Records Administration (NARA) requirements for the digitization process, including the destruction of the source records in accordance with a NARA-approved Records Disposition Schedule.

Electronic Information Systems

The Contractor shall manage records contained in electronic information systems (EIS) by incorporating recordkeeping controls into the system or export the records into the ERMS in accordance with 36 CFR Part 1236, *Electronic Records Management*. The Contractor shall design and implement migration strategies to counteract hardware and software dependencies of electronic records whenever the records must be maintained and used beyond the life of the information system in which the records are originally created and captured.

Inventory and File Plan

The Contractor shall develop and maintain up-to-date site-wide inventories and file plan(s) that provide for the identification, location, arrangement, assignment of disposition authority, and retrieval of all categories (record series) of records created and received. These inventories and file plans shall include the Contractor's annual updates, which shall be in a format to show all changes from the prior version.

Records Requests

The Contractor shall respond to records management data calls by NARA and DOE as requested and process record requests for the FOIA, the Privacy Act, the former worker medical screening program, Energy Employee Occupational Illness and Compensation Program Act (EEOICPA), the Chronic Beryllium Disease Prevention Program, congressional inquiries, legal discoveries, and other record requests (e.g., training, personnel, exposure, project, incident reports, visitor logs, etc.). The Contractor shall respond to record requests within the timeframe request by the CO or Contracting Officer Representative.

Records Disposition

The Contractor shall develop and implement a Records Disposition Plan, which shall include processing paper records to storage (e.g., on-site, Federal Records Center prior to 12/31/2022) and the destruction process for records and information content. The Contractor shall disposition all records including historical/legacy records in accordance with the NARA-approved Records Disposition Schedules and applicable federal laws and regulations.

- 1) Ensure proper NARA-approved Records Disposition Schedule assigned, box, index, complete transfer paperwork, and obtain DOE approval prior to sending transfer paperwork and shipping inactive temporary records to a Federal Records Center or permanent records to the NARA.
- 2) Complete destruction certificates for all records, including those requiring destruction by other contractors, and submit to DOE Records Management Field Officer for review and obtaining DOE Legal approvals prior to destruction.

Document Control

The Contractor shall develop, implement and maintain sound document control systems for its own documents and processes ensuring efficient tracking, retrieval, revision control and distribution of documents, including drawings.

C.6.1.14 Public Relations and Media Support

The desired outcome is a strong public relations and communications program that ensures proper verbal and written dissemination of relevant OREM information.

The Contractor shall provide public relations services to communicate successes, and address challenges as needed, through a variety of tools (e.g., video production, press releases, articles, social media content, fact sheets, presentations). Public relations services also include stakeholder support, community outreach, media relations, tours, visits, public notices, access to documents, and preparation of supporting documents including the Annual Cleanup Progress Report and the Public Involvement Plan (updated every three years). The Contractor shall provide necessary technical expertise to DOE and for DOE interactions with the Site Specific Advisory Board and other stakeholders (e.g., affected local governments, Oak Ridge Reservations Communities Alliance). The Contractor shall also support DOE in conducting emergency public information activities when necessary.

The Contractor shall obtain DOE review and approval of all communications or releases of information to the public, the media, or members of Congress in accordance with the Section H clause DOE-H-2048, *Public Affairs – Contractor Releases of Information* (Oct 2014). The Contractor shall coordinate OREM public relations activities with the Y-12 and ORNL M&O contractors as necessary.

C.6.1.15 Legal Management

The desired outcome is a reliable legal management program, including litigation support.

The Contractor shall maintain legal expertise and demonstrate sound litigation management practices to include litigation and arbitration, and upon request from DOE shall provide legal advice and opinion on environmental matters, procurement, employment, labor, and the Price-Anderson Amendments Act. The Contractor shall also review and interpret legislation and laws, research and draft memoranda, and manage and oversee outside legal counsel.

The Contractor shall provide litigation support to the Government when requested by DOE in cases of actual or threatened litigation, regulatory matters, or third-party claims. Litigation support includes but is not limited to case preparation assistance; document retrieval, review and reproduction; witness preparation and testimony; expert witness testimony; and assisting Government counsel as necessary in response to discovery or other information-related activities responsive to any legal proceeding.

The Contractor shall provide timely support for legacy litigation, management of legacy worker compensation claims, and responses to requests for legacy documents. Legacy litigation support is provided in response to individual case requests by DOE legal staff or in response to other legally enforceable requirements. The management of legacy worker compensation claims includes claim investigation and support to DOE in estimating, evaluating, and managing such claims.

C.6.1.16 Safeguards and Security

The desired outcome is an S&S program that ensures protection of DOE OREM assets including people, property, and information.

The Contractor shall provide the resources, materials, and programs to ensure appropriate levels of protection against unauthorized access; theft, diversion, and loss of custody of accountable nuclear material; espionage; loss or theft of classified matter; loss or theft of government property; and other hostile acts that may cause unacceptable adverse impacts on national security or the health and safety of DOE and Contractor employees, the public, or the environment. This applies to buildings and areas under the Contractor's responsibility at ETTP, Y-12, and ORNL as authorized by Task Order.

The Contractor is not responsible for overall security at ORR sites, or for providing protective force resources. The Contractor shall coordinate with the appropriate site security contractor as it relates to Contract scope, provide relevant information and/or support for site-wide security requirements, and comply with site security requirements in close coordination with the Y-12 and ORNL M&O contractors and the protective force contractor at ETTP.

The Contractor's S&S requirements are stipulated in Section J, Attachment J-2, *Requirements Sources* and *Implementing Documents*. Interfaces are described in Section J, Attachment J-3, *Site Services and Interface Requirements*.

The Contractor's functions include but are not limited to:

- (a) **S&S Program Planning, Administration, Resources, and Budget:** The Contractor shall identify and coordinate its **S&S** operational planning activities and ensure that **S&S** programs are tailored to address site-specific characteristics and requirements, current technology, ongoing programs, and operational needs to achieve acceptable protection levels that reduce risks and are cost-effective.
- (b) **S&S Personnel Development and Training:** The Contractor shall identify **S&S** training needs for staff and shall arrange training in accordance with applicable requirements.
- (c) **S&S Awareness Program:** The Contractor shall inform individuals of their S&S responsibilities and promote continuing awareness of good security practices.
- (d) **Surveys, Reviews, and Assessments:** The Contractor shall accommodate and/or support S&S surveys, reviews, assessments, and/or performance tests (e.g., force-on-force exercises) that are conducted at the site(s) and/or for S&S program elements under the Contractor's responsibility. The Contractor shall also perform self-assessments of applicable S&S program elements as required.
- (e) **Resolution of Findings:** The Contractor shall identify, implement, and close corrective actions for deficiencies in accordance with the S&S corrective action management programs and applicable DOE requirements.
- (f) **Performance Assurance:** The Contractor shall provide performance assurance information to develop and/or support preparation of the site security plans.
- (g) **Security Conditions (SECON):** The Contractor shall comply with SECON response plans in the approved site security plans that will be immediately implemented when there is a change in either DOE or a specific facility or site SECON status.
- (h) **Site Security Plans and Other S&S Plans:** The Contractor shall provide information to develop and/or support preparation and maintenance of the site security plans. The Contractor shall prepare and comply with site security plans and other S&S plans as required to execute the scope authorized by Task Order. The Contractor shall ensure applicable plans are revised prior to changing operations or configurations that alter the performance of existing S&S systems (e.g., limited or protected area boundaries, physical security configurations and associated hardware [sensors and cameras], patrol coverage and responses, safeguards methods or boundaries, and entry and access control systems and procedures).
- (i) **Vulnerability Assessments:** The Contractor shall provide information and expertise to develop and/or support preparation of vulnerability assessments, security analyses, and special S&S evaluations to execute the scope authorized by Task Order.
- (j) **Design Basis Threat:** The Contractor shall implement S&S actions, procedures, and/or processes necessary to comply with ongoing DOE design basis threat requirements. See Section C.5.9.2, *Design Basis Threat Mitigation*, for Task Order scope for initial DOE Order 470.3 compliance.
- (k) Facility Clearance and Registration: The Contractor shall submit all required information for facility clearance and registration actions in accordance with the DEAR, section 952.204-2(l) for its subcontractors requiring personnel security clearances. The contractor shall be responsible for implementation of the provisions of DOD 5220.22-M, National Industrial Security Program

- Operating Manual (NISPOM) (Chapter 7, "Subcontracting"), all DOE security requirements for their subcontractors, and for termination of the subcontracts upon completion of activities.
- (1) **Foreign Ownership, Control or Influence:** The Contractor shall provide accurate and complete submissions of Standard Form 328, *Certificate Pertaining to Foreign Interest*; information provided during annual certification (if applicable) and review activities; and other required documentation, as required for any significant changes. The Contractor shall ensure all changes that might affect the determination are reported to the DOE cognizant security office as they occur.
- (m) **Classified Visits:** The Contractor shall implement procedures for processing and handling classified visits to facilities under its cognizance, submit required information as needed, and comply with the requirements of approved site security plans.
- (n) **Equivalencies and Exemptions:** The Contractor shall identify, evaluate, coordinate, and submit equivalencies and exemptions to S&S requirements to DOE.
- (o) **Incidents of Security Concern:** The Contractor shall develop and implement procedures and processes consistent with DOE requirements for addressing incidents of security concern.
- (p) Protective Forces: The Contractor shall support and integrate operational and business activities with Protective Forces at each site for the physical protection of special nuclear material, classified materials, and industrial assets, and for the mitigation and deterrence of radiological and toxicological sabotage events.
- (q) Badging and Access Authorization (Clearance) Processing: The Contractor shall provide preemployment and pre-clearance suitability evaluations for prospective employees or clearance holders. The Contractor shall request and obtain personnel security clearances and badges. The Contractor shall support downgrading and terminating clearances as required. The Contractor shall obtain security badges, keys, proximity cards, and other personal security and access devices from terminating employees and remove such individuals from automated access control systems.
- (r) **Unclassified Foreign National Visits and Assignments:** The Contractor shall implement procedures for meeting the requirements of processing and handling foreign national visitors, submit required information (as needed), and comply with the requirements of approved security plans.
- (s) **Information Security:** The Contractor shall ensure requirements for the identification and protection of sensitive and classified information and matter are met. The Contractor shall ensure all sensitive and classified information is protected and controlled commensurate with its classification level, category, and applicable caveats. The Contractor shall nominate a Classification Officer and a sufficient number of qualified Derivative Classifiers to be appointed. The Contractor shall make appropriate classification guidance available to potential generators and Derivative Classifiers of classified information.
 - (1) Operations Security (OPSEC): The Contractor shall perform the necessary management and support functions required for an effective OPSEC program. The Contractor shall perform OPSEC assessments as required of all facilities that have the potential to process or store classified or controlled unclassified information. The Contractor shall review information generated to execute the scope authorized by Task Order for critical information.
 - (2) Classified Matter Protection and Control: The Contractor shall develop and maintain a system of procedures, facilities, and equipment to identify, protect, and control classified matter that is generated, received, transmitted, used, stored, reproduced, or destroyed in accordance with

- applicable requirements. The Contractor shall reduce unneeded classified matter and report and support the investigation of potential or actual compromise of classified information.
- (3) Unclassified Controlled Nuclear Information Program: The Contractor shall nominate a sufficient number of qualified Reviewing Officials to be appointed. The Contractor shall make appropriate Unclassified Controlled Nuclear Information topical guidance available to potential generators and Reviewing Officials of unclassified controlled nuclear information.
- (4) Controlled Unclassified Information: The Contractor shall manage and implement a Controlled Unclassified Information Program, in accordance with DOE requirements, for official use only and other controlled unclassified information (including export controlled and nonproliferation information).
- (t) Material Control and Accountability (MC&A): The Contractor shall maintain control and accountability of accountable nuclear material as required to execute the scope authorized by Task Order. Controls shall be appropriate for the nuclear material attractiveness and quantities as described in DOE requirements.
 - (1) MC&A Plan and Program: The Contractor shall develop and maintain a DOE-approved MC&A Plan. The Contractor's MC&A Program shall conform to and implement the MC&A Plan for program management, materials accountability, materials control, measurement, and physical inventory.
 - (2) MC&A Movement: The Contractor shall coordinate movement and/or shipment of nuclear materials as needed.
 - (3) Nuclear Materials Management and Safeguards System: The Contractor shall report accountable nuclear material data to the Nuclear Materials Management and Safeguards System electronically as required.

C.6.1.17 Information Technology

The desired outcome is successful and compliant execution of the ORR Cleanup Contract mission and associated activities by delivering innovative and secure Information Technology (IT) solutions.

The Contractor shall provide management, coordination, and expertise for areas relating to information assurance (cyber security) for government-owned systems including General Support Systems, National Security Systems, Industrial Control Systems, and Supervisory Control and Data Acquisition systems. These systems identify and protect classified, unclassified, and sensitive information generated, processed, and stored for the ORR Cleanup Contract. The Contractor shall extend and integrate IT practices, programs, procedures, and requirements (e.g., engineering, configuration management, governance, architecture, cyber security) to its Supervisory Control and Data Acquisition and Industrial Control Systems.

The Contractor shall be proactive regarding cyber threats and IT systems shall be protected based on evolving threats in accordance with the Federal Information Security Management Act of 2002. The Contractor shall obtain an authorization to operate designation from the DOE Authorizing Official for all IT systems. The Contractor's IT systems covered under this Contract shall operate in accordance with all terms and conditions specified in the authorization to operate and shall not operate if a denial of authorization to operate has been issued. The authorization to operate durations will be based on how well the Contractor implements the DOE policy specific to cyber security and on the Contractor's ability to prevent, detect, contain, and report any malicious activity and intrusion into IT systems.

The Contractor shall comply with the cyber security requirements specified in DOE Order 205.1, *Department of Energy Cyber Security Program* and the *Office of Environmental Management (EM) Cyber-Security Policy and Risk Management Approach Implementation Plan*. Major areas of concern are the handling of sensitive information to include personally identifiable information, protecting information and information systems from unauthorized access, and reporting to the DOE Joint Cyber Coordination Center (known as JC3) any significant attempts or successful intrusions into these systems by unauthorized individuals. Cyber security personnel and privileged users such as systems administrators may be required to obtain a DOE Q clearance.

Applications purchased or developed to support the mission under this Contract shall be able to run on mandatory IT baseline security configurations without any deviations and must comply with the appropriate controls as documented in National Institute for Standards and Technology SP 800-53, *Security and Privacy Controls for Federal Information Systems and Organizations*. The Contractor shall use federally available enterprise applications and licenses, if they exist, prior to purchasing or developing custom products, including enterprise solutions to provide cyber security.

The Contractor will be provided access to the software systems listed in Section J, Attachment J-8, *Government-Furnished Services and Information*, and other software systems as may be necessary to coordinate information exchange with customers and interface partners. The Contractor shall:

- Where applicable, use the software systems listed in Section J, Attachment J-8, *Government-Furnished Services and Information*. The Contractor is not responsible for any updates of listed software except where noted.
- Provide any additional databases and software programs it deems necessary to manage staff training requirements, facility equipment, analytical data, compliance with environmental regulations, and protection of the safety and health of its employees.
- Ensure that all software meets the quality assurance requirements of its software quality assurance plan.

The Contractor shall comply with Office of Management and Budget Circular A-130, *Management of Federal Information Resources*, and provide detailed input into the ongoing capital planning investment control process, including but not limited to IT investment cost, schedule, and risk. This also includes responding to occasional data calls for more detailed IT investment and performance information.

C.6.1.18 Audit Support Services

The desired outcome is Contractor support to DOE for OREM external audits.

The Contractor shall provide support to DOE as required for internal and external audits or assessments, including but not limited to DOE Headquarters, GAO, Inspector General, Defense Nuclear Facilities Safety Board, EPA, and Tennessee Department of Environment and Conservation.

C.6.1.19 Administration of Pension and Benefits Services at ORR, Portsmouth, and Paducah Sites

The desired outcome is proper administration of DOE pension and benefit plans for the ORR, Portsmouth, and Paducah sites.

The Contractor shall administer the ETTP Pension Plan for Grandfathered Employees (Multi-Employer Pension Plan known as MEPP), the ETTP Health and Welfare Benefit Plan (Multi-employer Welfare Arrangement known as MEWA), and all other existing benefit plans for eligible employees in accordance with the terms and conditions in Section H and the respective plan documents. Grandfathered Employees may consist of bargained and non-bargained employees of the incumbent contractor or those participating

employers at the Portsmouth and Paducah Gaseous Diffusion Plants. The Contractor shall act as fiduciary of the plans, as applicable.

C.6.1.20 Other Program Activities

The Contractor shall provide resources and/or support necessary for the conduct of business (e.g., prime contract administration, human resources, budget, accounting, severance, training, and real and personal property including maintaining and updating FIMS to accurately reflect the status of EM-owned ORR facilities, as necessary) not specifically assigned elsewhere. These resources and support shall be provided in accordance with applicable DOE Orders, invoked Technical Standards, and Contract requirements.

C.6.2 Project Services

C.6.2.1 Reservation Management

The Contractor shall provide support for the management of reservation-wide initiatives including natural resources, cultural resources, roads and grounds, utilities, emergency management, Joint Information Center, information, and other miscellaneous initiatives.

C.6.2.2 Reindustrialization

The desired outcome is Contractor support to OREM reindustrialization activities that ensures successful and compliant transfer of DOE Oak Ridge excess property for reuse.

The Contractor shall perform reindustrialization program activities including property transfer documentation (e.g., covenant deferral request packages, National Environment Protection Act documentation); interface with the Community Reuse Organization of East Tennessee, the City of Oak Ridge, regional industrial development boards, and other stakeholders as necessary; and program management and administration support. The Contractor shall assist DOE in the coordination of the OREM cleanup mission with ongoing reindustrialization activities and the activities of private sector occupants.

C.6.2.3 Emergency Management and Fire Protection

The desired outcome is compliant emergency management and fire protection programs.

The Contractor shall provide for and integrate emergency management services for EM activities at ORNL and Y-12 with the M&O contractors, and with the City of Oak Ridge at ETTP. The emergency management program shall include emergency planning and preparedness as well as response to possible incidents involving nuclear, radiological, chemical, and hazardous materials on site. Emergency management shall be performed in accordance with Section J, Attachment J-2, *Requirements Sources and Implementing Documents*, and the Section H clause *Emergency Response*.

The Contractor shall maintain a fire protection program that ensures a level of fire protection and fire suppression capability sufficient to minimize losses from fire and related hazards. Fire protection requirements are stipulated in Section J, Attachment J-2, *Requirements Sources and Implementing Documents*.

Interfaces and roles and responsibilities are summarized in Section J, Attachment J-3, Site Services and Interface Requirements. At ETTP, the Contractor shall adhere to the Memorandum of Agreement (MOA) Between the U.S. Department of Energy and the City of Oak Ridge, Tennessee, on the Transition of the East Tennessee Technology Park Fire Protection and Emergency Response Services.

C.6.2.4 Technology Development

The desired outcome is the implementation of technology development activities that support OREM cleanup as necessary.

The Contractor shall plan and implement technology development activities to support cleanup in accordance with the OREM *Mercury Technology Development Plan* (DOE/ORO-2489) and/or other DOE EM technology development initiatives and related guidance. The Contractor shall prepare and/or update other technology development documentation as necessary.

C.6.2.5 Historic Preservation and Cultural Resource Management

The desired outcome is compliance with historic preservation and cultural resource requirements in the planning and execution of EM activities.

The Contractor shall ensure that historic preservation and cultural resource management have been considered early in the environmental cleanup decision-making process, and shall ensure compliance with applicable laws governing cultural resources and historic preservation, which may include but is not limited to the National Historic Preservation Act, the Archaeological Resources Protection Act, the Archaeological and Historic Preservation Act, the Native American Graves Protection and Repatriation Act of 1990, and Executive Orders 11593, *Protection and Enhancement of the Cultural Environment*, 13287, *Preserve America*, and related agreements. The Contractor shall coordinate with the ORNL and Y-12 sites M&O contractors and stakeholder organizations to ensure compliance with historic preservation plans, the *Cultural Resource Management Plan* (DOE/ORO-2085), the above laws, and the requirements in Section J, Attachment J-2, *Requirements Sources and Implementing Documents*.

Unanticipated discoveries shall be addressed in accordance with the applicable site historic preservation and cultural resource management documentation, which may include but is not limited to development and/or implementation of any agreements with related actions required for compliance.

C.6.2.6 Analytical Services (Sample Management Office Integration)

The desired outcome is analytical data of sufficient quality to meet DQOs for OREM activities.

The Contractor shall provide for analytical services and/or laboratories as required to provide analytical data of sufficient quality to meet DQOs. The Contractor shall support the DOE Consolidated Audit Program for analytical services laboratories and waste treatment, storage, disposal, and recycling facilities. Such audit support shall be limited to those laboratories and waste treatment, storage, disposal, and recycling facilities related to the ORR activities under this Contract.

C.6.2.7 Transportation Services

The desired outcome is a transportation program that ensures safe, compliant transportation of EM materials and waste.

The Contractor shall be responsible for transportation services, including but not limited to transportation, traffic management for areas within its administrative responsibility, shipping and receiving, vehicle maintenance and management, equipment maintenance and management, operation and maintenance of the Radio Frequency Identification Transportation System (or equivalent), and mail services.

The Contractor shall ensure safe and effective transportation routes are established for transporting cleanup waste from ORNL and Y-12 to the onsite landfills in coordination with the appropriate DOE program office, contractor organizations, and other stakeholders, as necessary. Transportation requirements are stipulated in Section J, Attachment J-2, *Requirements Sources and Implementing Documents*.

C.6.2.8 Waste Management

The desired outcome is a waste management program that ensures safe, compliant, and cost effective management, storage, treatment, and disposal of waste and materials under OREM's responsibility.

The Contractor shall provide safe, compliant, and cost-effective management, storage, treatment, and/or disposal of waste (i.e., sanitary and industrial waste, classified waste, LLW, mixed LLW, TRU waste, RCRA waste, and TSCA waste) and materials that may be contaminated with radiological and/or hazardous constituents as a result of past operations. Some of these wastes and materials have been accumulated for treatment and disposal pending development of appropriate technologies, availability of disposal sites, and/or availability of funding (see Section J, Attachment J-12, *Difficult to Dispose of Waste*). The Contractor shall implement and maintain a site-wide radioactive waste management program to ensure that the requirements of DOE Order 435.1, *Radioactive Waste Management*, and its associated manual are met. The Contractor shall coordinate with disposal facilities to ensure their data needs and requirements for waste acceptance are met. The Contractor waste operations shall cost-effectively maximize the use of sanitary and construction landfills over other disposal sites.

The Contractor shall manage all waste storage, treatment, and disposition activities in compliance with DOE Order 435.1, RCRA, TSCA, CERCLA, and other applicable state or Federal requirements. The Contractor shall establish and maintain a waste generation forecast for all cleanup projects in the scope of this Contract. The Contractor shall also manage waste tracking systems and the waste generation forecast and ensure data is accurate and accessible to meet DOE and regulatory requirements and to support project information needs. The Contractor shall prepare reports to meet the requirements of the *Site Treatment Plan for Mixed Wastes on the U.S. Department of Energy Oak Ridge Reservation* and the *Oak Ridge Reservation Polychlorinated Biphenyl Federal Facilities Compliance Agreement* (ORR-PCB-FFCA) and shall coordinate with other ORR programs and contractors as needed. Waste management requirements are stipulated in Section J, Attachment J-2, *Requirements Sources and Implementing Documents*.

C.6.2.9 Land Use Controls

The desired outcome is the planning and implementation of long-term land use controls that ensure protectiveness and meet CERCLA requirements.

The Contractor shall address long-term land use control issues in decision-making, cleanup, and post-remediation processes. The Contractor shall provide for the activities, plans, and infrastructure needed for successful transition of EM, Y-12, and ORNL site areas from cleanup, and shall plan and execute long-term land use controls responsibilities at ETTP as described in Section C.5.7.3.

The Contractor shall provide (as necessary), operate, and maintain land use controls that are consistent with CERCLA commitments to ensure protectiveness.

The Contractor shall support DOE in the coordination and communications regarding long-term land use controls planning and transition with involved parties, including local stakeholders and regulators, consistent with the FFA. The Contractor shall verify the implemented institutional and engineering controls for transferred property and incorporate these in the annual Remediation Effectiveness Report.

C.6.2.10 Support DOE Natural Resource Damage Assessment

The desired outcome is compliance with requirements of the CERCLA Natural Resource Damage Assessment.

The Contractor shall provide support to DOE for the purpose of complying with the Natural Resource Damage Assessment requirements under Section 107(a) and 120(a) of CERCLA. DOE is liable for damages or injury to, destruction of, or loss of natural resources, including the cost of assessing such

damage. CERCLA and the National Contingency Plan establish DOE as both a CERCLA lead response agency on DOE facilities and a trustee for natural resources under its jurisdiction. As such, the DOE must respond to releases of hazardous substances from DOE's facilities, is liable for the restoration of natural resources lost or injured as a result of such releases or from the response actions, and participates in a trustee council with other Natural Resource Damage trustees in effecting mitigation for damages or injury due to natural resources under DOE's jurisdiction.

C.7 List of Section C Attachments

Attachment C-1 - Facility and Site List

Attachment C-1

Facility and Site List

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SECTION C ATTACHMENT C-1

Tables

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Acronyms

CH contact-handled COLEX column exchange

DOE United States Department of Energy
EGCR Experimental Gas-cooled Reactor

EM DOE Office of Environmental Management
EMWMF Environmental Waste Management Facility

ESD Environmental Sciences Division
ETTP East Tennessee Technology Park
IWMF Interim Waste Management Facility
LGWO Liquid and Gaseous Waste Operations

LLW low-level (radioactive) waste

LLLW liquid low-level (radioactive) waste
LWSP Liquid Waste Solidification Project
MSRE Molten Salt Reactor Experiment

N/A not applicable

NE DOE Office of Nuclear Energy

NNSA National Nuclear Security Administration

ORNL Oak Ridge National Laboratory
ORRR Oak Ridge Research Reactor
OSF other structures and facilities

RCRA Resource Conservation and Recovery Act

RCW recirculating cooling water

RH remote-handled

SC DOE Office of Science SF standard industrial facility SWSA solid waste storage area

TBD to be determined

TRU transuranic

TSCA Toxic Substances Control Act

TWPC Transuranic Waste Processing Complex

UOM unit of measurement
WAG waste area grouping

Y-12 Y-12 National Security Complex

SECTION C ATTACHMENT C-1

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Table 1. ORNL Cleanup Facilities and Sites

Program Owner	Facility Number	Facility Description	Property	Size*		
3026 Hot (Туре			
EM	3026D	Dismantling and Examination of Hot Cells	Building	2410		
		Distillanting and Examination of Hot Cens	Duilding	2410		
3038 Facil EM	3038	Radioisotope Laboratory	Building	7,110		
		Area Facilities	Duilding	7,110		
EM	3029	Radioisotope Production Lab B	Building	3,406		
EM	3030	Radioisotope Production Lab C	Building	784		
EM	3031	Radioisotope Production Lab D	Building	785		
EM	3032	Radioisotope Production Lab E	Building	786		
EM	3033	Radioisotope Production Lab F	Building	837		
EM	3033A	Radioisotope Production Lab Annex	Building	806		
SC	3033A 3034	Radioisotope Area Services	Building	1,129		
SC	3034	Isotope Area Storage and Service Building	Building	2,198		
EM	3093	Storage Cubicle for Krypton	OSF	7BD		
EM EM	3093	Storage Pad for Buildings 3031 and 3032	OSF	3,159		
EM EM	3109 3109	Pressurized Off gas System Filter Pit	OSF	3,139 104		
EM EM	3109 3110	Isotopes Filter House	OSF	1,052		
EM	3118	Radioisotope Production Lab H	Building	897		
EM EM	3118 3126	Normal Off gas System Charcoal Filter Pit	OSF	120		
EM EM	3120 3139	Cell Ventilation Filters	OSF			
			USF	315		
	3001	eactor Historic Preservation	Duilding	20 200		
EM	3001	Graphite Reactor Building (including Canal)	Building	38,208		
EM	NA	Graphite Reactor Underground Exhaust Ducts (3001, 3002, 3003)	Not Listed	TBD		
		port Facilities				
EM	3002	Filter House for Graphite Reactor - 3001	OSF	3,450		
SC	3003	Solid State Accelerator Facility	Building	12,104		
EM	3018	Cell Ventilation and Off-gas Exchange Stack - 3018	OSF	TBD		
		elding Reactor and Low-Intensity Test Reactor Facili				
EM	3005	Low Intensity Test Reactor Facility	Building	4,483		
EM	3009	Pump House for Building 3010	Building	156		
EM	3010	Bulk Shielding Reactor Facility	Building	4,335		
SC	3010A	Bulk Shielding Reactor Annex	Building	2,132		
SC	3080	Reactor Experiment Control Room	Building	1,915		
EM	3083	Neutron Spectrometer Station 1	Building	87		
<u>EM</u>	<u>3107</u>	25 meter Target House	Building	<u>192</u>		
Oak Ridg	e Research I	Reactor Facilities				
EM	3042	Oak Ridge Research Reactor	Building	48,374		
EM	3107	25 meter Target House	Building	192		
3028 Facil						
EM	3028	Radioisotope Production Lab A	Building	6,921		
Bethel Val	lley Chemica	l Development Lab Facilities				
EM	4507	High-level Chemical Development Lab	Building	3,969		
EM	4556	Filter Pit for Building 4507	OSF	TBD		
3515 Facil	3515 Facility					
EM	3515	Fission Production Pilot Plant	Building	704		
3517 and S	Support Faci	lities				
EM	3505-T1	Caustic Storage Tank (3505A)	OSF	5,000 gal		
EM	3505-T2	Acid Storage Tank (3505B)	OSF	5,000 gal		

^{*}Size is shown in square feet unless noted otherwise.

Table 1. ORNL Cleanup Facilities and Sites

Program Owner	Facility Number	Facility Description	Property Type	Size*
EM	3517	Fission Product Development Laboratory	Building	16,080
EM	3542	Storage Building for 3505 and 3517	Building	613
EM	3547	Cell Vent Roughing Filter for 3517	OSF	TBD
EM	3548	Cell Vent Filters for 3517 (X920028)	OSF	TBD
EM	3623	Flanders Filter House for Building 3517	OSF	TBD
EM	3624	Flammable Storage for Building 3517	Not Listed	71
EM	K4489	Cooling Tower - 3517	OSF	110 tons
7500 Com				
EM	7500	Homogeneous Reactor Experiment Facility	Building	12,269
EM	7560	LLLW Condensation Tank for 7500	OSF	TBD
EM	7562	LLLW Collection and Storage Tank for 7500	OSF	TBD
2026 Com		222 // Contour and Storage Tame 101 / 500	0.51	122
EM	2026	Radioactive Materials Analytical Lab	Building	26,640
EM	2032	Manhole 240 Monitoring Station 1	OSF	TBD
EM	2099	Monitoring Control Station for Building 2026	OSF	1,900 gal
EM	2101	Waste Management Organization Health and Hygiene Support	Building	3,794
EM	2026-CT	Cooling Tower (X185479)	OSF	300
EM	2026-ES	Exhaust Stack	OSF	1,500
EM	2026-FP	Filter Pit and Enclosure	OSF	800
2525 Com		The Train Enclosure	OBI	000
SC	2525	Fabrication Department Shop A	Building	27,149
SC	2547	General Machine Shop	Building	9,369
2528 Com		General Machine Shop	Building	7,507
SC	2528	Coal Research Lab	Building	4,105
SC	2528A	Melton Valley Storage Tanks Demonstration Facility	OSF	28,000 gal
3019 Com		Weston variety Storage Tanks Demonstration Tacinty	Obi	20,000 gai
EM	3017	Quality Services Division Building	Building	10,400
EM	3019A	Radiochemical Development Facility	Building	58,549
EM	3019B	High-level Radiation Analytical Lab	Building	4,136
EM	3020	Exhaust Stack - 3020	OSF	TBD
EM	3091	Filters for Building 3019	OSF	TBD
EM	3100	Source and Special Materials Vault	Building	1,328
EM	3108	Filter House	OSF	567
EM	3121	Vessel Off-gas Filter House for 3019A	OSF	TBD
EM	3123	Level 2 Emergency Generator (80-3123)	OSF	TBD
EM	3123-TK	Diesel Fuel Storage Tank (X188092)	OSF	500 gal
EM	3123-1 K 3130	Waste Operations Control Center	Building	4,083
EM	3130-80	Optional Standby Diesel Generator	OSF	7,083 TBD
			OSF	
EM	3130-TK	3130 Diesel Fuel Storage Tank (X188035)	OSF	250 gal TBD
EM	3131	Level 2 Backup Diesel Generator (X903131)	OSF	
EM	3131-TK	3019 Diesel Fuel Storage Tank (X187992)		500 gal 425
EM	3135	Sentry Post - 8D	Building	
EM	3137	Surface Science Lab	Building	6,805
EM	3145	LLW Collection Building	Building	124
EM	3146-80	Level 1 Emergency Generator (X190485)	OSF	TBD
EM	3146-TK	3146 Diesel Fuel Storage Tank (X187993)	OSF	500 gal
EM	3160	3019 Motor Control Center #1 and #2	OSF	TBD
EM	3161	Quality Services Division Storage Building	Not Listed	72

^{*}Size is shown in square feet unless noted otherwise.

Table 1. ORNL Cleanup Facilities and Sites

Program Owner	Facility Number	Facility Description	Property Type	Size*
EM	3162	Quality Services Division Storage Building	Not Listed	72
Central St	ack East Hot	t Cell Facilities Complex		
SC	3027	Dispatch Center	Building	3,542
SC	3027A	Dispatch Center Level 1 (Emergency) Generator	Not Listed	TBD
NE	3047	Isotope Technology Building	Building	24,215
NE	3047-CT	3047 Cooling Tower (X185557)	Not Listed	TBD
NE	3047- GEN	3047 Emergency Generator	Not Listed	TBD
NE	3047-TK	3047 Diesel Fuel Storage Tank (X188085)	Not Listed	TBD
SC	3104	West Complex Maintenance Shop	Building	7,411
EM	3127	LGWO Documentation Management Storage	Building	1,057
SC	3129	Distributed Energy Communication and Control Annex for Building (3114)	Building	400
EM	3154	Manhole 112 Monitoring Building	OSF	TBD
EM	3155	Manholes 114 and 234 Monitoring Station	OSF	TBD
NE	3163	West Weather Port	Not Listed	TBD
NE	3164	East Weather Port	Not Listed	TBD
Experimen	ntal Gas-cool	ed Reactor (EGCR) Complex		
SC	7600	EGCR Containment Building	Building	94,060
SC	7609	EGCR Stack Monitoring Facility	OSF	TBD
SC	7610	Energy Systems Area Storage Building	Building	373
SC	7614	EGCR Exhaust Stack	OSF	TBD
		nonstration Facility		
EM	7602	Integration Process Demonstration Facility	Building	14,840
		xperiment (MSRE) Complex	D '11'	20.514
EM	7503	MSRE	Building	28,514
EM	7503A	Inactive LLLW Collection Tank	Not Listed	11,000 gal
EM EM	7503B 7507	MSRE Septic Tank Substores	OSF Building	2,000 1,600
EM	7507W	Storage Facility	Building	1,600
EM	7507 W	MSRE Office Building	Building	3,949
EM	7511	Filter Pit for MSRE 7503	OSF	7,949 TBD
EM	7511	Stack for 7503	OSF	TBD
EM	7512	Filter House for 7503	Building	273
EM	7516	Field Service Shop	Building	5,069
EM	7555	Diesel Generator House for 7503	Building	3,500
	elding Facili		Bullding	3,300
EM	7700	Four Towers, Tower Shielding Facility	OSF	TBD
EM	7700A	Tower Shielding Facility Big Beam Shield and Reactor Turret	OSF	150
EM	7701	Tower Shielding Facility Pool	OSF	TBD
EM	7702	Control House, Tower Shielding Facility	Building	4,510
EM	7703	Hoist House, Tower Shielding Facility	Building	4,615
EM	7704	Control House, Tower Shielding Facility	Building	2,251
EM	7705	Pump House, Tower Shielding Facility	Building	469
EM	7706	Heat Exchanger (Tower Shielding Facility Cooler)	OSF	TBD
EM	7707	Battery House, Tower Shielding Facility	Building	400
EM	7708	Reactor Shield Storage, Tower Shielding Facility	Building	3,121
EM	7716	Filter Pump House Main Pool	OSF	TBD
EM	7720	Tower Shielding Civil Defense Bunker	Building	900

^{*}Size is shown in square feet unless noted otherwise.

Table 1. ORNL Cleanup Facilities and Sites

Program Owner	Facility Number	Facility Description	Property Type	Size*
EM	7760	Process Waste Collection Tank, Tower Shielding Facility	OSF	6,000 gal
3039 Stack	x Complex	, <u>,</u>		
EM	3039	Central Radioactive Off-Gas Disposal Facility	OSF	110,000
EM	3092	Off-Gas Scrubber Facility	OSF	1,800
EM	3105	Waste Monitoring Control Center	Building	600
EM	3109	Off-Gas Filter - ORRR	OSF	104
EM	3110	Building Cell Filter House	OSF	1,052
<u>EM</u>	3125	3039 Stack Emergency Generator	OSF	<u>485</u>
<u>EM</u>	3126	Charcoal Filter (normal off-gas) - ORRR	OSF	<u>120</u>
EM	3139	Cell Ventilation Filters - ORRR	OSF	315
EM	3151	Manhole 25 Monitoring Station 2	OSF	<u>64</u>
EM	3158	North Monitoring Building 3025/3026	OSF	160
EM	3159	South Monitoring Building 3500/4500	OSF	168
3544 Com	plex			
EM	3544	Process Wastewater Treatment Plant	Building	3,055
EM	3544B	Filter Press Building	OSF	352
EM	3518	Process Wastewater Neutralization Plant	OSF	1,092
EM	3594	Waste Management Storage Building	Building	400
Hot Storag				
EM	3597	Hot Storage Garden	OSF	TBD
Melton Va		Management Complex	,	
EM	2660	Office Building	Building	3,055
EM	7572	CH-TRU Waste Storage Facility	Building	7,000
EM	7574	Nuclear Fuel Services, Inc. Waste Storage Facility	Building	4,150
EM	7934	Control Storage Facility	Building	3,055
Transurar	nic Waste Pr	ocessing Complex (TWPC) Storage and Operations 1		,
EM	7572	CH TRU Waste Storage Facility	Building	7,000
EM	7574	Nuclear Fuel Services, Inc. Waste Storage Facility	Building	4,150
EM	7822K	Solid Waste Staging and Storage	OSF	4
EM	7823	CH TRU Waste Storage Facility	OSF	64,400
EM	7823B	Temporary Waste Storage Facility	Building	1,550
EM	7823C	Temporary Waste Storage Facility	Building	1,550
EM	7823D	Temporary Waste Storage Facility	Building	1,550
EM	7823E	Temporary Waste Storage Facility	Building	2,000
EM	7824	Radioactive Waste Storage	Building	7,202
EM	7826	Retrievable Waste Storage	OSF	22,542
EM	7827	Shielded Dry Well Facility	OSF	1,069
EM	7829	Shielded Dry Well Facility	OSF	117
EM	7834	Retrievable Waste Storage Facility 2	OSF	27,744
EM	7855	Concrete Cast Storage Facility	Building	2,883
EM	7860A	Temporary Waste Storage Facility	Building	3,936
EM	7879	TRU Solid LLW Storage Facility	Building	4,150
EM	7883	RH TRU Waste Storage Bunker	Building	4,582
EM	7880	Waste Processing Facility	Building	38,938
EM	7880A	CH Staging Area	Building	4,377
EM	7880AA	Drum Venting Building	Building	1,259
<u>EM</u>	7880AB	Mock-up Training Building	Building	1,060
EM	7880AC	Mobile In Situ Object Counting System	Trailer	<u>320</u>

^{*}Size is shown in square feet unless noted otherwise.

Table 1. ORNL Cleanup Facilities and Sites

Program Owner	Facility Number	Facility Description	Property Type	Size*
<u>EM</u>	7880AD	Limited Area 1	Trailer	80
EM	7880AE	Instrumentation and Electrical Maintenance Shop	Building	640
EM	7880B	Personnel Building	Building	6,512
EM	7880B-TK	7880B Aboveground Sewage Tank	OSF	10
EM	7880BB	CH Marshaling Building	Building	7,061
EM	7880CC	Project and General Management	Building	3,360
EM	7880D	Control Room	Building	264
EM	7880DD	Engineering	Building	1,872
EM	7880E	Boiler Building	Building	360
EM	7880EE	Rest Room Facility	Trailer	303
EM	7880EE- TK	7880EE Underground Sewage Tank	OSF	3
EM	7880F	Air Compressor	Building	96
EM	7880G	Electrical Equipment Building	OSF	5,000
EM	7880GG	CH Marshaling Building Support	Trailer	160
EM	7880H	Backup Diesel Generator	OSF	500
EM	7880HH	Macro-encapsulation Building	Building	626
EM	7880II	Steel Carport Cover	OSF	200
EM	7880J	Non-destructive Examination Real-time Radiography 6	Trailer	289
EM	7880JJ	Training Center	Building	4,320
EM	7880K	Limited Access Gate Trailer	Trailer	288
EM	7880KK	Operations and Safety Support Trailer	Trailer	2,500
EM	7880L	DOE Office Trailer	Trailer	2,304
EM	7880L-TK	7880L Underground Sewage Tank	OSF	_,,
EM	7880M	Business Operations Management	Trailer	1,316
EM	7880N	Procurement and Finance	Trailer	1,504
EM	7880NN	Support Office	Trailer	784
EM	7880P	Training	Trailer	1,356
EM	7880PP	Telecommunications Center	Building	209
EM	7880Q	Restroom Facility Trailer	Trailer	420
EM	7880QQ	Multi-purpose Building	Building	13,150
EM	7880Q- TK	7880Q Underground Sewage Tank	OSF	3
EM	7880RR	Radiation Controls Office	Building	2,660
EM	7880 RR- TK	7880RR Underground Sewage Tank	OSF	3
EM	7880S	Backup Air Compressor Building	Building	149
EM	7880TT	Inventory Control Office	<u>Trailer</u>	160
EM	7880V	Document Management	Trailer	1,027
EM	7880W	Human Resources and Document Control	Trailer	1,493
EM	7880WW	Telecommunications Center Diesel Generator	OSF	44
EM	7880X	BBA Field Office	Trailer	160
EM	7880XX	Sludge Engineering Office Trailer	Building	2,016
EM	7880Y	Waste Management Offices	Building	2,964
EM	7880YY	Environmentally Controlled Storage Trailer	Trailer	2,128
EM	7880Z	Quality Assurance/Nuclear Safety	Building	3,034
EM	7880Z-TK	7880Z Underground Sewage Tank	OSF	3
2007/2008				
EM	2003	Process Water Control Station	Building	268
			5	

^{*}Size is shown in square feet unless noted otherwise.

Table 1. ORNL Cleanup Facilities and Sites

Owner Number Factor Description Type EM 2007 Calibration Lab Building 6,781 EM 2008 ORNL Whole Body Counter Building 26,640 3025 Complex Irradiated Material Examination and Testing Hot Cell Facility Building TBD EM 3025M Solid State Office and Laboratory Building Building TBD 3525 Complex EM 3025S2525 High-Rad Level Examination Laboratory Building TBD EM 3602 Cylinder Tank Storage for Building 3525 Building TBD 4501/4505 Complex SC 4500N Central Research and Administrative North Building TBD SC 4500S Central Research and Administrative South Building TBD SC 4500S Central Research and Administrative South Building TBD SC 4500S Experimental Engineering Building TBD SC 4505 Experimental Engineering Building 21,191 Sc0 5505 Transuraniu	Program	Facility		Duonouty	Size*
EM 2007 Calibration Lab Building 6,781 EM 2008 ORNL Whole Body Counter Building 26,640 3025 Complex Irradiated Material Examination and Testing Hot Building TBD EM 3025E Cle Facility Building TBD EM 3025M Solid State Office and Laboratory Building Building TBD EM 3025SC Complex EM 3602 Cylinder Tank Storage for Building 3525 Building TBD EM 3602 Cylinder Tank Storage for Building 3525 Building TBD EM 3607 Cask Tool Storage Building TBD SC 4500N Central Research and Administrative North Building TBD SC 4500S Central Research and Administrative South Building TBD SC 4500S Experimental Engineering Building TBD SC 4504So Experimental Engineering Building 21,191 SCO 4505 Experimental Engineering Buildin			Facility Description	Property	Size
EM 2008 ORNL Whole Body Counter Building 26,640			Calibration Lab		6.781
Building					
EM 3025E Irradiated Material Examination and Testing Hot Cell Facility Building TBD EM 3025M Solid State Office and Laboratory Building Building TBD EM 3025S25 High-Rad Level Examination Laboratory Building TBD EM 3607 Cylinder Tank Storage for Building 3525 Building TBD EM 3607 Cask Tool Storage Building TBD SC 4500N Central Research and Administrative North Building TBD SC 4500S Central Research and Administrative South Building TBD SC 4500S Central Research and Administrative South Building TBD SC 4505 Experimental Engineering Building TBD SC 4505 Experimental Engineering Building 21,191 SC 5505 Transuranium Research Lab Building 21,191 60107019 Complex EM 6010 ACC OR Electron Linear Accelerator Building TBD EM 6010 ACC			ORIVE Whole Body Counter	Dunding	20,040
EM	3023 COM	рісх	Irradiated Material Examination and Testing Hot		T
Table	EM	3025E		Building	TBD
SSZS Complex	FM	3025M		Ruilding	TRD
EM 3002 Cylinder Tank Storage for Bullding 3525 Building TBD			bond State Office and Edisoratory Building	Bullding	TDD
EM 3602 Cylinder Tank Storage for Building 3525 Building TBD EM 3607 Cask Tool Storage Building TBD 4501/4505 Complex TBD SC 4500N Central Research and Administrative North Building TBD SC 4500S Central Research and Administrative South Building TS,738 SC 4505 Experimental Engineering Building T5,738 SC 4505 Experimental Engineering Building TBD Sos Facility SC 4505 Experimental Engineering Building TBD Sos Facility SC 5505 Transuranium Research Lab Building TBD Sos Facility EM 6010 Oak Ridge Electron Linear Accelerator Building TBD EM 6010 Oak Ridge Electron Linear Accelerator Building TBD EM 6010 Oak Ridge Electron Linear Accelerator Building TBD EM 6010 Oak Ridge Electron Linear Accelerator Building TBD EM <t< td=""><td></td><td></td><td>High-Rad Level Examination Laboratory</td><td>Building</td><td>TRD</td></t<>			High-Rad Level Examination Laboratory	Building	TRD
EM 3607 Cask Tool Storage Building TBD					
SC			·		
SC			Cusk 1001 Storage	Bullding	TBD
SC 4500S Central Research and Administrative South Building TBD SC 445040I Radiochemistry Lab Building 75,738 SC 4505 Experimental Engineering Building 41,469 5505 Facility SC 5505 Transuranium Research Lab Building 21,191 6010 7019 Complex EM 6010 ACC Oak Ridge Electron Linear Accelerator Building TBD EM 6010 ACC OR Electron Linear Accelerator OSF TBD EM 7019 Research Reactors Division Warehouse Facility - Category C Storage Building TBD Fire Station Complex SC 2500 Guard and Fire Headquarters Building 10,912 SC 2500 Guard and Fire Headquarters Building 10,912 SC 2508 Guard and Fire Headquarters Building 10,912 SC 2518 Support Services Building Building 13,399 SC 2523A Decontamination Building Building 7,150 SC <td></td> <td></td> <td>Central Research and Administrative North</td> <td>Building</td> <td>TBD</td>			Central Research and Administrative North	Building	TBD
SC 45104501 Radiochemistry Lab Building 75,738 SC 4505 Experimental Engineering Building 41,469 5505 Facility SC 5505 Transuranium Research Lab Building 21,191 6010/7019 Complex EM 6010 Oak Ridge Electron Linear Accelerator Building TBD EM 6010 ACC OR Electron Linear Accelerator OSF TBD EM 7019 Research Reactors Division Warehouse Facility - Category C Storage Building TBD Fire Station Complex SC 2500 Guard and Fire Headquarters Building 10,912 SC 2518 Support Services Building Building 13,399 SC 2518 Support Services Building Building 7,150 SC 2523 Decontamination Building Building 7,150 SC 2523A Decontamination Laudry Annex Building 300 SC 2572 Emergency Generator for 2500 OSF TBD SC 2621					
SC					
S505 Facility SC 5505 Transuranium Research Lab Building 21,191 6010/7019 Complex EM 6010 Oak Ridge Electron Linear Accelerator Building TBD EM 6010 ACC OR Electron Linear Accelerator OSF TBD EM 7019 Research Reactors Division Warehouse Facility - Category C Storage Building TBD Fire Station Complex SC 2500 Guard and Fire Headquarters Building 10,912 SC 2518 Support Services Building Building 13,399 SC 2518 Support Services Building Building 7,150 SC 2523 Decontamination Laundry Annex Building 300 SC 2523 Decontamination Laundry Annex Building 300 SC 2572 Emergency Generator for 2500 OSF TBD SC 2621 Electrical Utilities Shop Building 1,28 SC 2628 Fire Protection Maintenance Storage Building <t< td=""><td></td><td></td><td></td><td></td><td></td></t<>					
SC			Experimental Engineering	Bullang	11,100
6010/7019 Complex EM 6010 Oak Ridge Electron Linear Accelerator Building TBD EM 6010 ACC OR Electron Linear Accelerator OSE TBD EM 7019 Research Reactors Division Warehouse Facility - Category C Storage Building TBD Fire Station Complex SC 2500 Guard and Fire Headquarters Building 10,912 SC 2518 Support Services Building Building 13,399 SC 2523 Decontamination Building Building 7,150 SC 2523A Decontamination Laundry Annex Building 300 SC 2523A Decontamination Laundry Annex Building 300 SC 2521 Electrical Utilities Shop Building 128 SC 2628 Fire Protection Maintenance Storage Building 5,385 Health Physics Research Reactor Complex SC 7709 Health Physics Research Reactor Building 3,050 SC 7710 Dosimetry Applications Research Facility Build			Transuranium Research Lab	Building	21 191
EM6010Oak Ridge Electron Linear AcceleratorBuildingTBDEM6010 ACCOR Electron Linear AcceleratorOSFTBDEM7019Research Reactors Division Warehouse Facility - Category C StorageBuildingTBDFire Station ComplexSC2500Guard and Fire HeadquartersBuilding10,912SC2518Support Services BuildingBuilding13,399SC2523Decontamination BuildingBuilding7,150SC2523ADecontamination Laundry AnnexBuilding300SC2572Emergency Generator for 2500OSFTBDSC2621Electrical Utilities ShopBuilding128SC2628Fire Protection Maintenance StorageBuilding5,385Health Physics Research Reactor ComplexSC7709Health Physics Research ReactorBuilding3,050SC7710Dosimetry Applications Research FacilityBuilding9,356SC7712Dosimetry Applications Research Low Energy AcceleratorBuilding1,044SC7735Radiation Calibration LaboratoryBuilding2,800SC3523Electronic Fabrication ShopBuilding530Southeast Contaminated Labs ComplexSC3523Electronic Fabrication ShopBuilding1,184EM3615Manhole 235 Monitoring Station 3OSF64EM3616Manhole 235 Monitoring Station 7OSF64 </td <td></td> <td></td> <td>Transdrament Resourch Eac</td> <td>Bullang</td> <td>21,171</td>			Transdrament Resourch Eac	Bullang	21,171
EM 6010 ACC OR Electron Linear Accelerator OSF TBD EM 7019 Research Reactors Division Warehouse Facility - Category C Storage Building TBD Fire Station Complex SC 2500 Guard and Fire Headquarters Building 10,912 SC 2518 Support Services Building Building 13,399 SC 2523 Decontamination Building Building 300 SC 2523A Decontamination Laundry Annex Building 300 SC 25272 Emergency Generator for 2500 OSF TBD SC 2621 Electrical Utilities Shop Building 128 SC 2628 Fire Protection Maintenance Storage Building 5,385 Health Physics Research Reactor Complex SC 7709 Health Physics Research Reactor Building 3,050 SC 7710 Dosimetry Applications Research Low Energy Accelerator Building 1,044 SC 7735 Radiation Calibration Laboratory Building 2,800			Oak Ridge Electron Linear Accelerator	Building	TBD
Research Reactors Division Warehouse Facility - Category C Storage Building TBD					
Category C Storage					
Fire Station Complex SC 2500 Guard and Fire Headquarters Building 10,912 SC 2518 Support Services Building Building 13,399 SC 2523 Decontamination Building Building 7,150 SC 2523A Decontamination Laundry Annex Building 300 SC 2572 Emergency Generator for 2500 OSF TBD SC 2621 Electrical Utilities Shop Building 128 SC 2628 Fire Protection Maintenance Storage Building 5,385 Health Physics Research Reactor SC 7709 Health Physics Research Reactor Building 3,050 SC 7710 Dosimetry Applications Research Facility Building 9,356 SC 7712 Dosimetry Applications Research Low Energy Building 1,044 SC 7735 Radiation Calibration Laboratory Building 2,800 SC 7758 High Flux Isotope Reactor Parts Storage Building 530	EM	7019		Building	TBD
SC 2500 Guard and Fire Headquarters Building 10,912 SC 2518 Support Services Building Building 13,399 SC 2523 Decontamination Building Building 7,150 SC 2523A Decontamination Laundry Annex Building 300 SC 2572 Emergency Generator for 2500 OSF TBD SC 2621 Electrical Utilities Shop Building 128 SC 2628 Fire Protection Maintenance Storage Building 5,385 Health Physics Research Reactor Complex SC 7709 Health Physics Research Reactor Building 3,050 SC 7710 Dosimetry Applications Research Facility Building 9,356 SC 7712 Dosimetry Applications Research Low Energy Accelerator Building 1,044 SC 7735 Radiation Calibration Laboratory Building 2,800 SC 7758 High Flux Isotope Reactor Parts Storage Building 530 Southeast Contaminated Labs Complex <t< td=""><td>Fire Static</td><td>on Complex</td><td>- caregory - storage</td><td></td><td></td></t<>	Fire Static	on Complex	- caregory - storage		
SC 2518 Support Services Building Building 13,399 SC 2523 Decontamination Building Building 7,150 SC 2523A Decontamination Laundry Annex Building 300 SC 2572 Emergency Generator for 2500 OSF TBD SC 2621 Electrical Utilities Shop Building 128 SC 2628 Fire Protection Maintenance Storage Building 5,385 Health Physics Research Reactor Complex SC 7709 Health Physics Research Reactor Building 3,050 SC 7710 Dosimetry Applications Research Low Energy Accelerator Building 1,044 SC 7735 Radiation Calibration Laboratory Building 2,800 SC 7758 High Flux Isotope Reactor Parts Storage Building 530 Southeast Contaminated Labs Complex SC 3523 Electronic Fabrication Shop Building 1,184 EM 3613 Diversion Box Monitoring Station 3 OSF			Guard and Fire Headquarters	Building	10.912
SC 2523 Decontamination Building Building 7,150 SC 2523A Decontamination Laundry Annex Building 300 SC 2572 Emergency Generator for 2500 SC 2621 Electrical Utilities Shop Building 128 SC 2628 Fire Protection Maintenance Storage Building 5,385 Health Physics Research Reactor Complex SC 7709 Health Physics Research Reactor SC 7710 Dosimetry Applications Research Facility Building 9,356 SC 7712 Dosimetry Applications Research Low Energy Accelerator SC 7735 Radiation Calibration Laboratory Building 1,044 Accelerator SC 7758 High Flux Isotope Reactor Parts Storage Building 530 Southeast Contaminated Labs Complex SC 3523 Electronic Fabrication Shop Building 1,184 EM 3613 Diversion Box Monitoring Station 3 OSF 160 EM 3615 Manhole 235 Monitoring Station 5 OSF 64 EM 3617 Manhole 229 Monitoring Station 7 OSF 64 Southeast Services Complex SC 3501 Sewage Pumping Station OSF 196 EM 3602 East Research Service Center Building 12,340 Data Concentrator 4 Waste Operations Control					
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1 HM 1 3507R 1 1 177	EM	3502	East Research Service Center	Building	12,340
EIVI JJUZD Center Data Acquisition System 2502 Building 112	ЕМ	2502D	Data Concentrator 4 Waste Operations Control	Duilding	112
Center Data Acquisition System - 3302	ElVI	3302B	Center Data Acquisition System - 3502	Dunding	112
SC 3587 Mail Services Building Building 3,562		3587	Mail Services Building	Building	3,562
SC 3610 Storage Building Building 200	SC	3610	Storage Building	Building	200

^{*}Size is shown in square feet unless noted otherwise.

Table 1. ORNL Cleanup Facilities and Sites

Program Owner	Facility Number	Facility Description	Property Type	Size*
EM	3614	Manhole 190 Monitoring Station 4	OSF	64
EM	3618	WC-10 Tank Farm Pumping Station	OSF	630
SC	3621	Tent, Spill Response Vehicle Shelter	Trailer	3,975
Bethel Valley Tank Upgrades				
SC	2531	LLLW Evaporator Building	Building	3,724
SC	2537	Evaporator Service Tank and Control Room for 2531	OSF	TBD

^{*}Size is shown in square feet unless noted otherwise.

Table 2. Y-12 Cleanup Facilities and Sites

Program Owner	Facility Number	Facility Description	Property Type	Size*
Biology Co	omplex		**	
SC	9207	Biology	Building	256,660
SC	9207-A	Office Annex	Building	8,108
SC	9210	Mammalian Genetics	Building	64,737
SC	9767-06	Utilities	Building	400
SC	9767-07	Utilities	Building	393
Beta-4 (92	04-4) Compl	ex		
NNSA	9204-04	Production	Building	313,771
NNSA	9501-09	161 kV Transformer Vault		TBD
EM	OD-7	Building 9811-01 RCRA Tank Storage Facility	OSF	16,439
EM	OD-9	Building 9811-08 Waste Oil/Solvent Storage Facility	OSF	27,911
NNSA	9802-01	Steam Station at 9204-04	Building	151
NNSA	9802-02	Steam Station at 9204-04	Building	151
NNSA	9811-01	Storage	Building	4,917
NNSA	9811-04	Tanker Transfer Station	OSF	1,112
	201-5) Com			,
NNSA	9201-05	Production	Building	613,642
NNSA	9404-18	Former Demineralizer Facility	Building	4,760
NNSA	9404-20	Laborer Shack	Building	2,751
NNSA	9422-13	Storage	Building	62
NNSA	9422-15	Storage	Building	62
NNSA	9422-16	Storm Drain Monitoring	Building	64
NNSA	9622	Warehouse/Industrial	Building	218
NNSA	9976	Utilities Utilities	Building	2,797
NNSA	9983-HF	Decontamination Shower Facility	Trailer	375
	201-4) Com		1141101	373
11161111 (>	201 1) 00111	Environmental Management (Alpha-4)		
EM	9201-04	(including East and South COLEX Process	Building	510,218
		Equipment)	S	,
EM	Y701630	9201-04 Pedestrian Bridge	OSF	TBD
NNSA	9501-05	Transfer Stations #699 and #674	Not Listed	TBD
NNSA	9804	Valve House for 9201-04	Building	130
EM	OD-7	Building 9811-01 RCRA Tank Storage Facility	OSF	16,439
EM	OD-9	Building 9811-08 Waste Oil/Solvent Storage	OSF	27,911
<u> 12171</u>	<u>OD)</u>	Facility	<u>ODI</u>	27,711
Alpha-2 (0	201-2) Com			
SC	9201-02	Fusion Energy Building	Building	324,448
NNSA	9501-02	Primary Substation #599	Not Listed	TBD
SC	9732-02	Storage Building	Building	480
	201-3) Com		Dunung	400
NNSA	9201-3	Maintenance Facility	Building	191,978
NNSA	9732-3	Painter Facility	Building	2,447
NNSA	9999-3	Demineralizer Facility	Building	2,417
	9999-3 04-1) Compl		Dunung	2,413
SC SC	9204-01		Duilding	210.401
		Fusion Energy - Engineering Tech	Building	210,491
SC NING A	9422	Helium Compressor Building	Building	2,671
NNSA	9501-04	Primary Substation #824	Not Listed	TBD
9206 Com		Part of a	D '11'	ET 010
NNSA	9206	Production	Building	57,812

^{*}Size is shown in square feet unless noted otherwise.

Table 2. Y-12 Cleanup Facilities and Sites

Program Owner	Facility Number	Facility Description	Property Type	Size*
NNSA	9768	Utilities	Building	1,243
NNSA	9720-17	Warehouse/Industrial	Building	4,314
NNSA	9206 Tank Farm	9206 Tank Farm	Not Listed	TBD
9213 Com	l			
EM	9213	Development/Offices	Building	23,635
EM	9703-14	Former Post 3-South Portal (9213 area)	Building	123
EM	9999-02	Motor Generator (9213 area)	Building	140
9401-2 Fa	cility	, ,		
EM	9401-02	Plating Shop and Maintenance	Building	13,673
9401-1 Fa	cility			
NNSA	9401-01	Old Steam Plant - Maintenance/Recycle Storage	Building	13,454
Steam Pla	nt Complex			
NNSA	9401-03	Old Coal Fired Steam Plant	Building	62,124
NNSA	9616-10	Bulk Sulfuric Unload Station	Building	438
NNSA	9616-09	Steam Plant Wastewater Facility	Building	3,400
NNSA	9811-06	Dry Ash Handling Facility	Building	1,546
NNSA	9811-07	Ash Handling Facility	Building	1,363
<u>NNSA</u>	<u>9990</u>	Monitoring Station	<u>OSF</u>	<u>TBD</u>
NNSA	9990-03	Coal Sampling Building	Building	4,463
Tank Faci	lities Comple	ex		
EM	9720-44	Shed - Sludge Handling Facility	OSF	TBD
EM	9720-45	Liquid Organic Waste Facility	OSF	TBD
EM	9809-01	Waste Storage	OSF	TBD
EM	OD-7	Building 9811-01 RCRA Tank Storage Facility	OSF	16,439
EM	OD-9	Building 9811 08 Waste Oil/Solvent Storage Facility	OSF	27,911
EM	9825-01	Waste Storage	OSF	TBD
EM	9825-02	Waste Storage	OSF	TBD
9212 Com	plex			
NNSA	9212	Production	Building	442,317
NNSA	9409-22 <u>A</u>	Cooling Tower, 9212	OSF	1,829
<u>NNSA</u>	<u>9409-22B</u>	Steam Plant Wastewater Fac.	Building	<u>3,400</u>
NNSA	9409-22E	Cooling Tower, 9212	OSF	4,519
NNSA	9409-23	Cooling Tower, 9212	OSF	3,454
NNSA	9409-24	Cooling Tower, 9212/9215	OSF	1,586
NNSA	9416-12	Utilities, 9416-12	Building	126
NNSA	9416-28	Fire Protection Valve House (9409-22 Tower)	Building	149
NNSA	9416-32	Water Treatment and Valve House	Building	200
NNSA	9416-46	Valve House North of 9423	Building	54
NNSA	9423	Material Storage Warehouse	Building	6,263
NNSA	9721	Office Trailer	Trailer	157
NNSA	9723-25	Changehouse/Offices	Building	18,974
NNSA	9767-10	Chiller Building	Building	12,000
NNSA	9811-09	Transfer Station 9811-9	OSF	756
NNSA	9812	Tank Pit	Building	1,190
NNSA	9815	Nitrate Facility	Building	1,722
NNSA	9818	Acid Waste Neutralization	Building	7,561
NNSA	9820	Electrical Storage	Building	408
NNSA	9828-01	Bag Filter System	Building	557

^{*}Size is shown in square feet unless noted otherwise.

Table 2. Y-12 Cleanup Facilities and Sites

Program Owner	Facility Number	Facility Description	Property Type	Size*
NNSA	9828-02	Probe House	Building	193
NNSA	9828-03	Bag Filter House	Building	568
NNSA	9959-01	Storage	Building	106
NNSA	9980	Process Building	Building	4,361
NNSA	9981	Physical Testing, X-Ray	Building	8,687
NNSA	9996	Depleted Uranium Binary	Building	34,233
NNSA	9999	Motor Generator	Building	460
Y-12 Balar	nce of Facilit	ies		
NNSA	9424-01	Foam House for OD-9	Building	359
NNSA	9424-02	Foam House for OD-10	Building	357
EM	9703-14	Post 3 South Portal (9213 Area)	Building	123
EM	9840-04	Drum Cleaning Station	Building	312
SC	9983-FX	Field Research Center Field Support Trailer	Trailer	680
EM	9999 02	Motor Generator	Building	266

^{*}Size is shown in square feet unless noted otherwise.

Table 3. ETTP Sites for Closure and Environmental Monitoring

Program Owner	Facility Number	Facility Description	Property Type	Size	UOM
EM	1004-N-1	Cooling Tower	OSF	5,000	tons
EM	1004-N-1 CONT	RCW Lines	OSF	500	tons
EM	1004-NV-1	Valve House	OSF	1	each
EM	1006-A	Cooling Tower (North OF K-1006)	OSF	15,000	tons
EM	1006-D	Housing for Boiler Unit	OSF	1	each
EM	1007-P1	Pond, Large, Southwest of 1007	OSF	29,488	1,000 gal
EM	1007-P3	Pond, Southeast of 1007	OSF	5,898	1,000 gal
EM	1007-P4	Pond, Southwest of 1580	OSF	901	1,000 gal
EM	1007-P5	Pond, South of 1580	OSF	451	1,000 gal
EM	1022-02	Air Sampling Monitor (K2)	OSF	1	each
EM	1022-03	Air Sampling Monitor (K3)	OSF	1	each
EM	1022-06	Air Sampling Monitor (TSCA1)	OSF	1	each
EM	1022-07	Air Sampling Monitor (TSCA2)	OSF	1	each
EM	1022-13	Perimeter Air Monitoring Station #33	OSF	1	each
EM	1022-15	Perimeter Air Monitoring Station #42	OSF	1	each
EM	1022-16	Perimeter Air Monitoring Station #43	OSF	1	each
EM	1037 FENCE	K-1037 Fencing	OSF	2,900	feet
EM	1060	Central Material Yard	OSF	3,056	square yards
EM	1064	Salvage Material Yard	OSF	1	each
EM	1065 GATE	Security Gate System K-1065	OSF	500	feet
EM	1066-A	K-1423 Cylinder Storage Yard	OSF	7,672	square yards
EM	1066-C	Parking Area - Electrical Equipment Storage	OSF	2,569	square yards
EM	1066-D	West Wing Equipment Maintenance Yard	OSF	1,274	square yards
EM	1066-E	Former Cylinder Storage Yard North K-832	OSF	18,626	square yards
EM	1066-F	Empty 21st Century Container Storage Yard	OSF	10,167	square yards
EM	1066-H	LLW Outside Storage	OSF	1,782	square yards
EM	1066-J	Former Cylinder Storage Yard North K-1025	OSF	6,956	square yards
EM	1066-L	Pallet Storage Yard	OSF	5,667	square yards
EM	1066-N	Storage Yard South of K-101	OSF	3,500	square yards
EM	1070-A	Contaminated Burial Ground, Northwest K-33	OSF	1	each
EM	1070-B	Burial Ground, Northeast K-1423	OSF	1	each
EM	1070-C	Burial Ground Yard, East K-1414	OSF	8,000	cubic feet
EM	1070-D	Burial Ground, South K-1037	OSF	10,000	cubic feet
EM	1070-F	Contractors Burial Ground, Duct Run Rd	OSF	1	each
EM	1070-G	Burial Ground, North Portal 6	OSF	1	each
EM	1093	Storage Yard - Powerhouse Area	OSF	1	each
EM	1094	Clean Scrap Storage Yard	OSF	1	each
EM	1131-1087	Neutralization Pile, ER Site	OSF	250,000	cubic feet
EM	1200-A	Housing For Boiler Unit	OSF	1	each
EM	1203-02	Emergency Holding Basin	OSF	100	gallons/day
EM	1203-05	East Sludge Drying Bed	OSF	1,000	gallons/day
EM	1203-06	West Sludge Drying Bed	OSF	1,000	gallons/day
EM	1204-02	Sewage Lift Station, E-309-3	OSF	1,000	gallons/minute
EM	1204-05	Sewer Lift Station, Northwest 1501	OSF	1,000	gallons/minute

^{*}Size is shown in square feet unless noted otherwise.

Table 3. ETTP Sites for Closure and Environmental Monitoring

Program	Facility		Property		
Owner	Number	Facility Description	Type	Size	UOM
EM	1204-11	Sewage Lift Station, South 1420	OSF	1,000	gallons/minute
EM	1204-12	Sewage Lift Station	OSF	1,000	gallons/minute
EM	1204-14	Sewage Lift Station	OSF	1,000	gallons/minute
EM	1204-15	Sewage Lift Station	OSF	1,000	gallons/minute
EM	1208	60-Meter Meteorological Tower	OSF	1	each
EM	1208-A	10-Meter Meteorological Tower	OSF	1	each
EM	1209	30-Meter Meteorological Tower	OSF	1	each
EM	1209-A	Thunderstorm Indicator	OSF	1	each
EM	1209-B	Doppler Sonar Unit	OSF	1	each
	1210	•			
EM	LIGHTING	K1210 Lighting Mod	OSF	1	kilowatts
EM	1220 LIGHTING	K1220 Lighting Mod	OSF	1	kilowatts
<u>EM</u>	<u>K-1253-10</u>	Tower K-10 Pine Ridge Water Tanks	<u>OSF</u>	<u>1</u>	<u>each</u>
<u>EM</u>	<u>K-1253-11</u>	Tower K-11 Powerhouse Area	<u>OSF</u>	<u>1</u>	<u>each</u>
<u>EM</u>	<u>K-1253-12</u>	Tower K-12 Bear Creek Road	<u>OSF</u>	<u>1</u>	<u>each</u>
<u>EM</u>	K-1253-13	Tower K-13 Central Acres Estate	<u>OSF</u>	<u>1</u>	<u>each</u>
<u>EM</u>	K-1253-14	Tower K-14 South of Gallaher Road	<u>OSF</u>	<u>1</u>	<u>each</u>
<u>EM</u>	K-1253-15	Tower K-15 East Blair Road	OSF	<u>1</u>	<u>each</u>
EM	K-1253-16	Tower K-16 North of K-1210	OSF	1	each
EM	K-1253-17	ETTP Public Warning System	OSF	1	each
EM	K-1253-18	Tower K-18 North of K-33	OSF	1	each
EM	K-1253 -19	Tower K-19 North of K-1420	OSF	1	each
EM	1232-J	Lime Storage Silo West of 1232	OSF	1	each
EM	1240-05A	Parking Area Portal 5 North	OSF	35,000	square yards
EM	1240-07A	Parking Area Portal 7	OSF	20,000	square yards
EM	1240-09A	Parking Area Portal 9	OSF	63,350	square yards
EM	1240-10A	Parking Area Portal 10 East	OSF	5,920	square yards
EM	1250-1	Railroad Bridge Southwest of K-31	OSF	241	feet
EM	1250-2	Vehicle Bridge Between K-27 and K-31	OSF	250	feet
EM	1250-3	Vehicle Bridge Between K-25 and K-33	OSF	285	feet
EM	1250-6	Railroad Bridge North of Portal 5	OSF	295	feet
EM	1252	K700 Barge Facility	OSF	1	each
EM	1253	ETTP Public Warning System	OSF	1	each
EM	131-36	Transformer Vault	OSF	5,000	kVA
EM	1313-L	Rubb Tent	OSF	1	each
EM	1316-K	Maintenance Storage Tent	OSF	1	each
EM	1407-AB	Recovery Sump Pump Station (Rs-04)	OSF	1	each
EM	1407-AB	Recovery Sump Pump Station (Rs-03)	OSF	1	each
EM	1407-AC	Recovery Sump Pump Station (Rs-02)	OSF	1	each
EM	1407-AD 1407-AF	Phase Separator & Transfer Station	OSF	600	feet
EM	1407-AF 1407-AG	Recovery Sump Pump Station (Rs-09)	OSF		
EM	1407-AG 1407-AH	Recovery Sump Pump Station (Rs-09) Recovery Sump Pump Station (Rs-08)	OSF	1	each each
EM	1407-AH 1407-AJ		OSF	1	
		Recovery Sump Pump Station (Rs-07)			each
EM	1407-AL 1407-G	Chromium Treatment System	Building	252	square feet
EM		Pit Facility Valva Pit North of 1407 C	OSF	1	each
EM	1407-R	Value Pit North of 1407-G	OSF	1	each
EM	1407-S	Valve Pit North of 1407-K	OSF	1	each
EM	1407-T	Diverter Box	OSF	1	each
EM	1407-V	Wastewater Collection Sump	OSF	1	each

^{*}Size is shown in square feet unless noted otherwise.

Table 3. ETTP Sites for Closure and Environmental Monitoring

Program	Facility		Property		
Owner	Number	Facility Description	Type	Size	UOM
EM	1407-W	Sump North of K-1407-V	OSF	1	each
EM	1407-Y	Central Neutralization Facility Tanker Unloading Area	OSF	1	each
EM	1407-Z	Containment Area - Southwest Corner of 1407-V	OSF	1	each
EM	1417-A	Storage Yard	OSF	10,648	square yards
EM	1417-B	Storage Yard	OSF	2,900	square yards
EM	1425-A	Waste Oil Tank	OSF	22,000	gallons
EM	1425-B	Waste Oil Tank	OSF	22,000	gallons
EM	1425-C	Waste Oil Tank	OSF	22,000	gallons
EM	1425-D	Waste Oil Tank	OSF	22,000	gallons
EM	1425-E	Waste Oil Containment Dike	OSF	167	square yards
EM	1435 GATE	Security Gate System K1435	OSF	528	feet
EM	1435-B1	Firewater Riser Building (South)	OSF	1	each
EM	1435-B2	Fenced Storage Area	OSF	1	each
EM	1435-C	Tank Farm and Drum Storage Tanker Unload	OSF	1	each
EM	1435-D	Incinerator Facility	OSF	190	gallons/day
EM	1435-D1	Battery Charging Station	OSF	288	square feet
EM	1435-D2	Firewater Riser Building (East)	OSF	1	each
EM	1435-D4	Storage Building Tent Rubb K-1435-D4	OSF	1	each
EM	1435-M	Equipment Tent	OSF	1	each
EM	1435-N	Storage Tent	OSF	1	each
EM	1435 WWTS	TSCA Waste Water Treatment System	OSF	65,000	gallons/day
EM	1515-C	Holding Pond Lagoon (Inactive)	OSF	30,032	square feet
EM	1515-F	Lagoon	OSF	1,200,000	1,000 gal
EM	1544	Sanitary Water Metering Pit	OSF	1	each
EM	1700	Stream/Weir Dam Sampling Station	OSF	1	each
EM	2.1	Roads, Paved	OSF	8	miles
EM	2.2	Roads, Unpaved	OSF	4	miles
EM	2527FENCE	K25/K27 Fencing	OSF	6,500	feet
EM	4	Steam Generation All	OSF	201,600,000	BTUH
EM	5	Water Supply All	OSF	84,900	feet
EM	700-A-02	Substation North of K-1414	OSF	150	kVA
EM	700-A-50	Substation Inside of K-1006	OSF	1	kVA
EM	700-A-65	Substation East of K-1200	OSF	1	kVA
EM	700-A-71	Substation, Switching East of K-25	OSF	1	kVA
EM	700-A-73	Substation South of K-1419	OSF	1	kVA
EM	702-A	Discharge Flume and Culvert	OSF	1	each
EM	705-A	Trash Barrier	OSF	1	each
EM	705-C	Intake Tunnel	OSF	1	each
EM	708-F	Coal Storage Yard	OSF	1	each
EM	765	K-720 Fly Ash Pile (Slag Disposal Area)	OSF	1	each
EM	770	Scrap Metal Storage Yard	OSF	30,000	cubic feet
EM	801-AA	Valve Vault	OSF	1	each
EM	801-BB	Valve Vault	OSF	1	each
EM	801-CC	Valve Vault	OSF	1	each
EM	802-C	Sprinkler Valve House	OSF	1	each
EM	802-CC	832 Make-up Meter Pit	OSF	1	each

^{*}Size is shown in square feet unless noted otherwise.

Table 3. ETTP Sites for Closure and Environmental Monitoring

Program Owner	Facility Number	Facility Description	Property Type	Size	UOM
<u>EM</u>	<u>806</u>	McKinney Ridge Site Road Repeater Station	OSF	<u>1</u>	each
EM	807	Cooling Water Venturi Vault	OSF	1	each
EM	808	Cooling Water Venturi Vault	OSF	1	each
EM	809	Cooling Water Venturi Vault	OSF	1	each
EM	810	Cooling Water Venturi Vault	OSF	1	each
EM	811	Cooling Water Venturi Vault	OSF	1	each
EM	812	Cooling Water Venturi Vault	OSF	1	each
EM	813	Cooling Water Venturi Vault	OSF	1	each
<u>EM</u>	<u>814</u>	Radio Repeater – McKinney Ridge Site	<u>OSF</u>	<u>1</u>	<u>each</u>
EM	835	Venturi Vault	OSF	1	each
EM	836	Venturi Vault	OSF	1	each
EM	837	Venturi Vault	OSF	1	each
EM	838	Valve Vault	OSF	1	each
EM	839	Valve Vault	OSF	1	each
EM	864	Meter Vault, RCW	OSF	1	each
EM	865	By Pass Vault, RCW	OSF	1	each
EM	869	Valve Vault, RCW	OSF	1	each
EM	870	Valve Vault, RCW	OSF	1	each
EM	871	Valve Vault, RCW	OSF	1	each
EM	872	Valve Vault, RCW	OSF	1	each
EM	874	Valve Vault, RCW (adjacent to 867)	OSF	1	each
EM	892-BB	Valve Vault, Clarifier B	OSF	1	each
EM	893-A	Valve Vault, RCW	OSF	1	each
EM	893-AA	Valve Vault, RCW	OSF	1	each
EM	893-B	Valve Vault, RCW	OSF	1	each
EM	893-BB	Valve Vault, RCW	OSF	1	each
EM	893-C	Valve Vault, RCW	OSF	1	each
EM	893-CC	Valve Vault, RCW	OSF	1	each
EM	893-D	Valve Vault, RCW	OSF	1	each
EM	893-DD	Valve Vault, RCW	OSF	1	each
EM	893-E	Valve Vault, RCW	OSF	1	each
EM	893-G	Valve Vault, RCW	OSF	1	each
EM	893-H	Valve Vault, RCW	OSF	1	each
EM	893-J	Valve Vault, RCW	OSF	1	each
EM	893-K	Valve Vault, RCW	OSF	1	each
EM	893-L	Valve Vault, RCW	OSF	1	each
EM	893-M	Valve Vault, RCW, East of 892B	OSF	1	each
EM	893-P	Valve Vault, RCW	OSF	1	each
EM	893-Q	Valve Vault, RCW	OSF	1	each
EM	893-V	Valve Vault, RCW	OSF	1	each
EM	893-W	Valve Vault, RCW	OSF	1	each
EM	893-X	Valve Vault, RCW	OSF	1	each
EM	893-Y	Valve Vault, RCW	OSF	1	each
EM	893-Z	Valve Vault, RCW	OSF	1	each
EM	897-A	Oil Containment Structure, Northeast K-33	OSF	50	square feet
EM	897-B	Oil Containment Structure, Northwest K-1025-E	OSF	50	square feet

^{*}Size is shown in square feet unless noted otherwise.

Table 3. ETTP Sites for Closure and Environmental Monitoring

Program Owner	Facility Number	Facility Description	Property Type	Size	UOM
EM	897-C	Oil Containment Structure, Northeast K-31	OSF	58	square feet
EM	897-D	Oil Containment Structure, Northeast K-31	OSF	37	square feet
EM	897-E	Oil Containment Structure, Southwest K-31	OSF	50	square feet
EM	897-F	Oil Containment Structure, South K-31	OSF	37	square feet
EM	897-G	Oil Containment Structure, South K-1206-F	OSF	58	square feet
EM	897-H	Oil Containment Structure, West K-1131	OSF	54	square feet
EM	897-J	Oil Containment Structure, South Portal 9	OSF	50	square feet
EM	897-K	Oil Containment Structure, South K-732	OSF	34	square feet
EM	897-L	Oil Containment Structure, Southwest K-31	OSF	62	square feet
EM	897-M	Oil Containment Structure, Northwest K-31	OSF	14	square feet
EM	897-N	Oil Containment Structure, Southwest K-33	OSF	34	square feet
EM	897-P	Oil Containment Structure, Northwest K-33	OSF	45	square feet
EM	899-A	Sanitary Water Valve Vault	OSF	1	each
EM	899-B	Blow Down Valve Vault	OSF	1	each
EM	899-C	Sanitary Water Valve Vault	OSF	1	each
EM	899-D	Blow Down Valve Vault	OSF	1	each
EM	899-E	Blow Down Valve Vault	OSF	1	each
EM	899-F	Blow Down Valve Vault	OSF	1	each
EM	899-G	Blow Down Valve Vault	OSF	1	each
EM	899-H	Blow Down Valve Vault	OSF	1	each
EM	899-J	Blow Down Valve Vault	OSF	1	each
EM	899-K	Blow Down Valve Vault	OSF	1	each
EM	899-L	Valve Vault	OSF	1	each
EM	899-M	Blow Down Valve Vault	OSF	1	each
EM	899-N	Blow Down Valve Vault	OSF	1	each
EM	899-P	Sanitary Water Valve Vault	OSF	1	each
EM	901-A	K-901-A Holding Pond	OSF	13,033	1,000 gal
EM	901-A-SDA	North Waste Disposal Area	OSF	1	each
EM	901-WDA	South Waste Disposal Area	OSF	1	each
EM	COMM SYS	Communication Systems All	OSF	1	each
EM	CONTR DISP		OSF	42,604,740	cubic feet
EM	FENCES	Fence All	OSF	78,000	feet
EM EM	FIREALA GW MONT WELLS	Fire Alarm Systems All Groundwater Monitoring Wells All	OSF OSF	1	each gallons/minute
EM	HAULRD	Haul Road	OSF	8	miles
EM	HAULRD BRIDGE 1	Haul Road Bridge over SR58	OSF	130	feet
EM	HAULRD BRIDGE 2	Haul Road Bridge over Bear Creek	OSF	110	feet

^{*}Size is shown in square feet unless noted otherwise.

Table 3. ETTP Sites for Closure and Environmental Monitoring

Program Owner	Facility Number	Facility Description	Property Type	Size	UOM
EM	HAULRD BRIDGE 3	Haul Road Bridge over SR95	OSF	90	feet
EM	K25 WTRANS CORR	Gravel Pad West of Non-destructive Assay Shop (2500-G)	OSF	7,467	square yards
EM	PAVED AREAS	Paved Areas	OSF	698,000	square yards
EM	PHASE2 FENCE	Site Phase 2 Fencing	OSF	450	feet
EM	PHASE3 FENCE	Site Phase 3 Fencing	OSF	1,700	feet
EM	RIFENCE	Fence	OSF	2,800	feet
EM	SEWAGE SYSTEM ALL	Sewage System All	OSF	1	each
EM	TRANS & DIST SYST	Transmission and Distribution System	OSF	1	each
EM	WALKS	Walks All	OSF	20,840	feet

^{*}Size is shown in square feet unless noted otherwise.

Table 4. ORNL Facilities and Sites for Surveillance and Maintenance and Environmental Monitoring

Program Owner	Facility Number	Facility Description	Property Type	Size	UOM
LGWO Fa	acilities and S	Sites			
EM	7569	Collection Tank Melton Valley	OSF	1	each
EM	7830	LLW Waste Storage Tank Facility	OSF	400,000	gallons
EM	7856	Melton Valley Storage Tanks Capacity Increase Project	OSF	600,000	gallons
EM	7892	Storage Building for 7856 Operations	Building	400	square feet
EM	7935	Equipment Cleaning Facility	Building	3,200	square feet
EM	7961	Melton Valley Process Waste Collection Tanks	OSF	400,000	gallons
TWPC M	elton Valley S	Solid Waste Storage and Operations Facilit	ies		
EM	7572	CH-TRU Waste Storage Facility	Building	7,000	square feet
EM	7574	Nuclear Fuel Services, Inc. Waste Storage Facility	Building	4,150	square feet
<u>EM</u>	<u>7586</u>	Rad Support Trailer	Trailer	800	square feet
<u>EM</u>	7667	Chemical Detonation/Disposal Facility	Building	2,100	square feet
EM	7822K	Solid Waste Staging and Storage	OSF	1	each
EM	7823	CH-TRU Waste Storage Facility	OSF	64,400	cubic feet
EM	7823B	Temporary Waste Storage Facility	Building	1,550	square feet
EM	7823C	Temporary Waste Storage Facility	Building	1,550	square feet
EM	7823D	Temporary Waste Storage Facility	Building	1,550	square feet
EM	7823E	Temporary Waste Storage Facility	Building	2,000	square feet
<u>EM</u>	<u>7823G</u>	<u>Crane Storage</u>	<u>Tent</u>	<u>2,400</u>	square feet
EM	7824	Radioactive Waste Storage	Building	7,202	square feet
<u>EM</u>	<u>7824A</u>	Waste Examination and Assay Facility Office Trailer	<u>Trailer</u>	<u>TBD</u>	square feet
EM	7826	Retrievable Waste Storage	OSF	22,542	cubic feet
EM	7827	Shielded Dry Well Facility	OSF	1,069	cubic feet
EM	7829	Shielded Dry Well Facility	OSF	117	cubic feet
<u>EM</u>	<u>7831</u>	Field Office	Building	<u>2,577</u>	square feet
<u>EM</u>	<u>7831F</u>	Flammable Storage Unit	Building	<u>700</u>	square feet
EM	7834	Retrievable Waste Storage Facility 2	OSF	27,744	cubic feet
EM	7855	Concrete Cast Storage Facility	Building	2,883	square feet
EM	7860A	Temporary Waste Storage Facility	Building	3,936	square feet
<u>EM</u>	<u>7860B</u>	Retrievable RH TRU Storage Pad	<u>OSF</u>	<u>1</u>	<u>each</u>
EM	7879	TRU Solid LLW Storage Facility	Building	4,150	square feet
EM	7883	RH-TRU Waste Storage Bunker	Building	4,582	square feet
EM	7880	Waste Processing Facility	Building	38,938	square feet
EM	7880A	CH Staging Area	Building	4,377	square feet
EM	7880AA	Drum Venting Building	Building	1,259	square feet
EM	7880B	Personnel Building	Building	6,512	square feet
EM	7880B-TK	7880B Aboveground Sewage Tank	OSF	10	1,000 gal
EM	7880BB	CH Marshaling Building	Building	7,061	square feet
EM	7880CC	Project and General Management	Building	3,360	square feet
EM	7880D	Control Room	Building	264	square feet
EM	7880DD	Engineering	Building	1,872	square feet
EM	7880E	Boiler Building	Building	360	square feet
EM	7880EE	Restroom Facility	Trailer	303	square feet

^{*}Size is shown in square feet unless noted otherwise.

Table 4. ORNL Facilities and Sites for Surveillance and Maintenance and Environmental Monitoring

Program Owner	Facility Number	Facility Description	Property Type	Size	UOM
EM	7880EE TK	7880EE Underground Sewage Tank	OSF	3	1,000 gal
EM	7880F	Air Compressor	Building	96	square feet
EM	7880G	Electrical Equipment Building	OSF	5,000	kVA
EM	7880GG	CH Marshaling Building Support	Trailer	160	square feet
EM	7880H	Backup Diesel Generator	OSF	500	kVA
EM	7880HH	Macro-encapsulation Building	Building	626	square feet
EM	7880J	Non-destructive Examination Real-time Radiography 6	Trailer	289	square feet
EM	7880JJ	Training Center	Building	4,320	square feet
EM	7880KK	Operations and Safety Support Trailer	Trailer	2,500	square feet
EM	7880L	DOE Office Trailer	Trailer	2,304	square feet
EM	7880M	Business Operations Management	Trailer	1,316	square feet
EM	7880N	Procurement and Finance	Trailer	1,504	square feet
EM	7880NN	Support Office	Trailer	784	square feet
EM	7880P	Training	Trailer	1,356	square feet
EM	7880PP	Telecommunications Center	Building	209	square feet
EM	7880Q	Restroom Facility Trailer	Trailer	420	square feet
EM	7880QQ	Multi-purpose Building	Building	13,150	square feet
EM	7880Q TK	7880Q Underground Sewage Tank	OSF	3	1,000 gal
EM	7880RR	Rad Con Office	Building	2,660	square feet
EM	7880 RR TK	7880RR Underground Sewage Tank	OSF	3	1,000 gal
EM	7880S	Backup Air Compressor Building	Building	149	square feet
EM	7880V	Document Management	Trailer	1,027	square feet
EM	7880W	Human Resources and Document Control	Trailer	1,493	square feet
EM	7880WW	Telecommunications Center Diesel Generator	OSF	44	kVA
EM	7880XX	Sludge Engineering Office Trailer	Building	2,016	square feet
EM	7880Y	Waste Management Offices	Building	2,964	square feet
EM	7880YY	Environmentally Controlled Storage Trailer	Trailer	2,128	square feet
EM	7880Z	Quality Assurance/Nuclear Safety	Building	3,034	square feet
EM	7880Z TK	7880Z Underground Sewage Tank	OSF	<u>3</u>	1,000 gal
EM	7888	Cask Loading Facility	Building	288	square feet
<u>EM</u>	<u>7898A</u>	Trench 13	<u>OSF</u>	<u>1</u>	<u>each</u>
<u>EM</u>	<u>N/A</u>	Portable Unit 1	<u>OSF</u>	<u>1</u>	<u>each</u>
EM	7880Z TK	7880Z Underground Sewage Tank	OSF	3	1,000 gal
Balance of	ORNL Faci	lities and Sites			
EM	0020712	Personnel Access Control System - SWSA #6	OSF	1	each
EM	0830	White Oak Creek Embayment Structure	OSF	17	acre-feet
EM	0857	Goat Building	Building	250	square feet
EM	0870	Raccoon Creek Weir and Monitoring Station	OSF	1	each
EM	0900	Firearms Range	OSF	5	Firing Pads
EM	1001	SWSA #3 Burial Ground	OSF	1	each
EM	1554	Closed Contractor Landfill Area	OSF	1	each

^{*}Size is shown in square feet unless noted otherwise.

Table 4. ORNL Facilities and Sites for Surveillance and Maintenance and Environmental Monitoring

Program Owner	Facility Number	Facility Description	Property Type	Size	UOM
EM	1562	Closed Buried Scrap Metal Area	OSF	1	each
EM	1566	First Creek Weir and Monitoring Station	OSF	1	each
EM	2016C-DL	Corehole 8 Plume Distribution System (K600804)	OSF	140	gal/minute
EM	2026A	Tank Southeast of Building 2026	OSF	1	each
EM	2032	Manhole 240 Monitoring Station 1	OSF	1	each
EM	2099	Monitoring Control Station for Building 2026	OSF	1,900	gallons
EM	2101	Waste Management Organization Health and Hygiene Support	Building	3,794	square feet
EM	2531	Radioactive Waste Evaporator	Building	3,724	square feet
EM	2532	High Level Waste Storage Cooling Pumphouse	Building	166	square feet
EM	2533	Cell Ventilation Filter Pit	OSF	24	cubic feet
EM	2534	Off-gas Filter Pit	OSF	8	cubic feet
EM	2535	Evaporator System A2 Cooling Tower #1	OSF	924	tons
EM	2537	Evaporator Service Tanks and Control Room	OSF	150,000	gallons
EM	2539	Evaporator System 2A2 Cooling Tower #2	OSF	250	tons
EM	2568	Cell Ventilation Off-gas Filters - 2531	OSF	96	cubic feet
EM	2600	Bethel Valley Process Waste Storage Tank	OSF	1,700,000	gallons
EM	2600-PCU	2600 Process Control Unit (K334176)	OSF	1	each
EM	2624	SWSA #1 Burial Ground	OSF	1	each
EM	2649	Transported Waste Receiving Facility	Building	8,322	square feet
EM	2650	Evaporator Chemical Shed	OSF	96	square feet
EM	2651	Optional Standby Generator for 2600 Area	OSF	313	kVA
EM	2657	Manhole 243 Monitoring Station	OSF	1	each
EM	2658	F-4005 Monitoring Station	OSF	1	each
EM	2660	Office Building	Building	6,650	square feet
EM	3001	Graphite Reactor Building (including Canal)	Building	38,208	square feet
EM	3001-R	3001 Graphite Reactor (X900001)	OSF	1	each
EM	3002	Filter House for Graphite Reactor - 3001	OSF	100,170	cubic feet
EM	3002A	Drain Tank South of 3003	OSF	1	each
EM	3003A	LLLW Drain Tank South of 3003	OSF	1	each
EM	3005	Low-Intensity Test Reactor Facility	Building	4,483	square feet
EM	3005-R	3005 Low Intensity Test Reactor, X900005	OSF	1	each
EM	3009	Pump House For Building 3010	Building	156	square feet
EM	3010	Bulk Shielding Reactor Facility	Building	4,335	square feet
EM	3010-RP	3010 Reactor Pool (X900004)	OSF	1	each
EM	3010-RS	3010 Bulk Shielding Reactor (X900007)	OSF	1	each
EM	3018	Exhaust Stack-3018	OSF	4,872	cubic feet/minute
EM	3023	North Tank Farm	OSF	1	each
EM	3025E-DL	Bethel Valley LLW System (K399021)	OSF	200	feet
EM	3026C	Radioisotope Development Lab-B	OSF	1	each
EM	3026D	Dismantling and Examination Hot Cells	Building	2,410	square feet
EM	3028	Radioisotope Production Lab-A	Building	6,921	square feet

^{*}Size is shown in square feet unless noted otherwise.

Table 4. ORNL Facilities and Sites for Surveillance and Maintenance and Environmental Monitoring

Program Owner	Facility Number	Facility Description	Property Type	Size	UOM
EM	3029	Radioisotope Production Lab-B	Building	3,406	square feet
EM	3030	Radioisotope Production Lab-C	Building	784	square feet
EM	3031	Radioisotope Production Lab-D	Building	785	square feet
EM	3032	Radioisotope Production Lab-E	Building	786	square feet
EM	3033	Radioisotope Production Lab-F	Building	837	square feet
EM	3033A	Radioisotope Production Lab Annex	Building	806	square feet
EM	3038	Radioisotope Laboratory	Building	7,110	square feet
EM	3039	Central Radioactive Off-gas Disposal Facility	OSF	110,000	cubic feet/minute
EM	3039-D6	3106 Ventilation Duct	OSF	1	each
EM	3042	Oak Ridge Research Reactor	Building	48,374	square feet
EM	3042-R	Oak Ridge Research Reactor (X900042)	OSF	1	each
EM	3083	Neutron Spectrometer Station 1	Building	87	square feet
EM	3089	Oak Ridge Research Reactor (3042) Cooling Tower No. 2	OSF	1	each
EM	3092	Off-gas Scrubber Facility	OSF	32	cubic feet
EM	3093	Storage Cubicle for Krypton	OSF	1	each
EM	3099	Storage Pad for Buildings 3031 and 3032	OSF	117	square yd
EM	3105	Waste Monitoring Control Center	Building	600	square feet
EM	3106	Cell Ventilation Filters- 4501/4505/4507	OSF	8,160	cubic feet
EM	3107	25-meter Target House	Building	192	square feet
EM	3109	Off-gas Filter-ORRR	OSF	104	cubic feet
EM	3110	Building Cell Filter House	OSF	445	cubic feet
EM	3117	Bulk Shielding Reactor Cooling Tower	OSF	1	each
EM	3118	Radioisotope Production Lab-H	Building	897	square feet
EM	3125	3039 Stack Emergency Generator	OSF	750	kVA
EM	3126	Charcoal Filter (Normal Off-gas) ORRR	OSF	1	cubic feet
EM	3127	LGWO Documentation Management Storage	Building	1,057	square feet
EM	3130	Waste Operations Control Center	Building	4,083	square feet
EM	3130-TK	3130 Diesel Fuel Storage Tank (X188035)	OSF	250	gallons
EM	3133	Bethel Valley Valve Box 1A	OSF	1	each
EM	3139	Cell Ventilation Filters-ORRR	OSF	1,200	cubic feet
EM	3143	ORRR Demineralization System	OSF	1,231	feet
EM	3145	LLW Collection Building	Building	124	square feet
EM	3151	Manhole 25 Monitoring Station 2	OSF	1	each
EM	3154	Manhole 112 Monitoring Building	OSF	1	each
EM	3155	Manholes 114 and 234 Monitoring Station	OSF	1	each
EM	3158	North Monitoring Building 3025/3026	OSF	1	each
EM	3159	South Monitoring Building 3500/4500	OSF	1	each
EM	3165	ORRR Decay Tank	OSF	1	each
EM	3502B	Data Concentrator 4 Waste Operations Control Center Data Acquisition System 3502	Building	112	square feet
EM	3503 LLLW	3503 WC-9 LLLW Tank Farm	OSF	1	each
EM	3504 LLLW	3504 WC-7 LLLW Collection Tank	OSF	1	each
EM	3505-T1	Caustic Storage Tank (3505A)	OSF	5,000	gallons

^{*}Size is shown in square feet unless noted otherwise.

Table 4. ORNL Facilities and Sites for Surveillance and Maintenance and Environmental Monitoring

Program Owner	Facility Number	Facility Description	Property Type	Size	UOM
EM	3505-T2	Acid Storage Tank (3505B)	OSF	5,000	gallons
EM	3507	South Tank Farm	OSF	1	each
EM	3513	Settling Basin 3513	OSF	1	each
EM	3515	Fission Product Pilot Plant	Building	704	square feet
EM	3517	Fission Products Development Laboratory	Building	16,080	square feet
EM	3518	Process Wastewater Neutralization Plant	Building	1,742	square feet
EM	3524	Equalization Basin	OSF	1	each
<u>EM</u>	<u>3525</u>	High-Rad Level Examination Laboratory	Building	TBD	<u>TBD</u>
EM	3542	Storage Building For 3505 & 3517	Building	613	square feet
EM	3544	Process Waste Treatment Plant	Building	3,055	square feet
EM	3544B	Filter Press Building	OSF	352	square feet
EM	3547	Cell Vent Roughing Filter for 3517	OSF	2,671	cubic feet
EM	3548	Cell Vent Filters for 3517	OSF	486	cubic feet
EM	3594	Waste Management Storage Building	Building	168	square feet
EM	3597	Hot Storage Garden	OSF	1	each
EM	3608	NonRad Wastewater Treatment Plant	Building	4,525	square feet
EM	3609 LLLW	3609 TH-4 LLLW Collection Tank	OSF	1	each
EM	3613	Diversion Box Monitoring Station 3	OSF	1	each
EM	3614	Manhole 190 Monitoring Station 4	OSF	1	each
EM	3615	Manhole 235 Monitoring Station 5	OSF	1	each
EM	3616	Manhole 149 Monitoring Station 6	OSF	1	each
EM	3617	Manhole 229 Monitoring Station 7	OSF	1	each
EM	3618	WC-10 Tank Farm Pumping Station	Building	630	square feet
EM	3618 LLLW	3618 LLLW WC-10 Tank Farm	OSF	1	each
EM	3620	Hot Off-Gas Collection Tank (F-2175)	OSF	250	gallons
EM	3623	Flanders Filter House for Building 3517	OSF	1,133	cubic feet
EM	4001	Pumping Station, Process Waste	OSF	1	each
EM	4003	SWSA #2 Burial Ground	OSF	1	each
EM	4507	High Level Chemical Development Lab	Building	3,969	square feet
EM	4556	Filter Pit for Building 4507	OSF	1	each
EM	7500	Homogeneous Reactor Experiment	Building	12,269	square feet
EM	7500-TR1	7500 Shower Trailer	Trailer	480	square feet
EM	7503	MSRE	Building	28,514	square feet
EM	7503B	MSRE Septic Tank	OSF	2,000	gallons
EM	7506	LGWO Maintenance Support Shop	Building	2,353	square feet
EM	7507	Substores	Building	1,600	square feet
EM	7507W	Storage Facility	Building	1,600	square feet
EM	7509	MSRE Office Building	Building	3,949	square feet
EM	7511	Filter Pit for MSRE 7503	OSF	8,120	cubic feet
EM	7512	Stack for 7503	OSF	30,000	cubic feet/minute
EM	7514	Filter House for 7503	Building	273	square feet
EM	7516	Field Service Shop	Building	5,069	square feet
EM	7555	Diesel Generator House for 7503	Building	3,500	square feet
EM	7560	LLLW Waste Condensation Tank for 7500	OSF	1	each
EM	7562	LLLW Collection and Storage Tank for 7500	OSF	1	each

^{*}Size is shown in square feet unless noted otherwise.

Table 4. ORNL Facilities and Sites for Surveillance and Maintenance and Environmental Monitoring

Program Owner	Facility Number	Facility Description	Property Type	Size	UOM
EM	7582	Receiving Facility	Building	6,900	square feet
EM	7583D	Temporary Storage Facility	Building	773	square feet
EM	7602	Integrated Process Demonstration Facility	Building	14,840	square feet
EM	7658	Closed Contractors Landfill	OSF	1	each
EM	7667	Chemical Waste Disposal Facility	OSF	2,100	square yards
EM	7701	Tower Shielding Facility Pool	OSF	1	each
EM	7702	Control House, Tower Shielding Facility	Building	4,510	square feet
EM	7703	Hoist House, Tower Shielding Facility	Building	4,615	square feet
EM	7704	Control House, Tower Shielding Facility	Building	2,251	square feet
EM	7705	Pump House, Tower Shielding Facility	Building	469	square feet
EM	7706	Heat Exchanger (Tower Shielding Facility Cooler)	OSF	1,700	tons
EM	7707	Battery House, Tower Shielding Facility	Building	400	square feet
EM	7708	Reactor Shield Storage, Tower Shielding Facility	Building	3,121	square feet
EM	7711	Process Waste Basin	OSF	1	each
EM	7716	Filter Pump House Main Pool	OSF	600	gal/minute
EM	7720	Tower Shielding Civil Defense Bunker	Building	900	square feet
EM	7750	Septic Tank, Tower Shielding Facility	OSF	1,500	gallons
EM	7760	Process Waste Collection Tank, Tower Shielding Facility	OSF	6,000	gallons
EM	7800	SWSA #4 Burial Ground (K400188)	OSF	1	each
EM	7802	SWSA #5 Burial Ground	OSF	1	each
EM	7802C	Deep Monitoring Well #1 Building	OSF	1	each
EM	7802D	Deep Monitoring Well #2 Building	OSF	1	each
EM	7802N	SWSA# 5 North Trench Disposal Area	OSF	1	cubic feet
EM	7805	Waste Pit No. 1	OSF	1	each
EM	7807	Waste Pit No. 3	OSF	1	each
EM	7808	Waste Pit No. 4	OSF	1	each
EM	7809	Waste Trench No. 5	OSF	1	each
EM	7810	Chemical Waste Trench No. 6	OSF	1	each
EM	7813	White Oak Creek Dam	OSF	36	acre-feet
EM	7818	Waste Trench No. 7	OSF	1	each
EM	7821	Emergency Waste Basin	OSF	1	each
EM	7822	SWSA #6 Burial Ground	OSF	1	each
EM	7822A	High Range Disposal Wells	OSF	1	each
EM	7822E	Hillcut Disposal Test Facility	OSF	1	each
EM	7822F	Tumulus I	OSF	1	each
EM	7822G	Tumulus II	OSF	1	each
EM	7822H	Asbestos Silos	OSF	1	each
EM	7822J	Solid Waste Staging and Storage	OSF	1	each
EM	7823A	Underground Storage Facility Well	OSF	1	each
EM	7830A	T-13 LLLW Slotting Tank	OSF	5,000	gallons
EM	7831	Field Office and Compactor Facility	Building	2,577	square feet
EM	7842A	LWSP II Solidified Waste Storage	OSF	1	each
EM	7857	IWMF Monitoring Station	OSF	1,296	square feet
EM	7859A	Sample Storage Buildings	Building	80	square feet
EM		Septic Tank	OSF	750	gallons
	7860-ST	*			
EM	7862	Temporary Waste Storage Facility	Building	8,000	square feet

^{*}Size is shown in square feet unless noted otherwise.

Table 4. ORNL Facilities and Sites for Surveillance and Maintenance and Environmental Monitoring

Program Owner	Facility Number	Facility Description	Property Type	Size	UOM
EM	7863	General Storage for Building 7860	Building	2,700	square feet
EM	7874	ESD Storage Building, Southwest SWSA #4	Building	2,880	square feet
EM	7877	LLW Solidification Facility	Building	1,980	square feet
EM	7880AB	Mock-up Training Building	Building	1,060	square feet
EM	7880AE	Instrumentation & Electrical Maintenance Shop	Building	640	square feet
EM	7880II	Steel Carport Cover	OSF	200	square feet
EM	7880K	Limited Access Gate Trailer	Trailer	288	square feet
EM	7880VV	Cask Processing Enclosure Support Enclosure	Trailer	160	square feet
EM	7886	Interim Waste Storage Pad # 1	OSF	1	each
EM	7887	Solid Liquid Separation System	OSF	50	gal/minute
EM	7888	Cask Loading Facility	Building	288	square feet
EM	7894	WAG 6 Monitoring Station 3 Shed for Monitoring Station #3	Building	36	square feet
EM	7895	Groundwater Treatment Facility	Building	924	square feet
EM	7898	SWSA #5 Burial Ground, North	OSF	1	each
EM	7898A	SWSA #5 North Trench 13 (CT8-7800)	OSF	1	each
EM	7922A	Data Concentrator #6 for Waste Operations Control Center Data Acquisition System	OSF	1	each
EM	7966	LLLW Monitoring and Collection Station	OSF	10,000	gallons
EM	7966A	7966 Filter House	OSF	24	cubic feet
EM	920027	Hot Waste Underground Piping	OSF	52,000	feet
EM	920033	Radioactive Liquid Waste System	OSF	17,400	feet
EM	920061	Melton Valley Process Waste Transfer Line	OSF	55,000	feet
EM	927602	Water Main 7600 Area	OSF	7,500	feet
EM	940002	Wells, Groundwater Monitoring - Capital	OSF	8	each
EM	GPKING	Gravel Parking	OSF	8,254	square yd
EM	K400192	Waste Isolation Pilot Plant Road (K400192)	OSF	1	miles
EM	K400193	Security Fence, Waste Isolation Pilot Plant Road - Wastren Site	OSF	15,380	feet
EM	K600816	Lighting and Utilities, Wastren Site	OSF	38	each
EM	PPKING	Paved Parking	OSF	9,421	square yd
EM	VMS	Vending Machine Shelter	OSF	84	square feet
EM	X184687	Badge Reader - SWSA #5	OSF	1	each
EM	X184688	Badge Reader - Burial Ground #5	OSF	1	each

^{*}Size is shown in square feet unless noted otherwise.

Table 5. Y-12 Facilities and Sites for Surveillance and Maintenance and Environmental Monitoring

Program Owner	Facility Number	Facility Description	Property Type	Size	UOM				
Landfills and CERCLA Disposal Facilities									
EM	9983-GU	EMWMF Changehouse	Trailer	2,160	square ft				
EM	9983-GV	EMWMF Office Complex	Building	4,200	square ft				
EM	9983-HL	Trailer	Trailer	1,056	square ft				
EM	9983-HM	Trailer	Trailer	1,560	square ft				
EM	9983-HN	Trailer	Trailer	1,344	square ft				
EM	9983-НО	Trailer	Trailer	1,440	square ft				
EM	9983-HP	Trailer	Trailer	1,080	square ft				
EM	9983-HQ	Trailer	Trailer	160	square ft				
EM	9983-HR	Trailer	Trailer	1,344	square ft				
EM	K400196	EMWMF Disposal Cell	OSF	7	acres				
EM	Y702013	Landfill VI	OSF	11	acres				
EM	Y702025	Landfill II	OSF	25	acres				
EM	Y702026	Landfill VII	OSF	25	acres				
EM	Y701786	Sanitary Landfill Chestnut Ridge	OSF	7	acres				
EM	K400190	Sanitary Landfill	OSF	7	acres				
EM	K400191	Sanitary Landfill	OSF	7	acres				
EM	Y701427	Landfill Sanitary	OSF	5	acres				
EM	9611-03	Ground Water Sampling Equipment	OSF	1	each				
EM	9611-04	Landfill Sampling Station	OSF	1	each				
EM	9616-11	Office Building, Landfill V	Building	4,968	square ft				
EM	9616-17	Truck Receiving Station	Building	264	square ft				
Balance of	Balance of Y-12 Facilities and Sites								
EM	9201-04	Environmental Management (Alpha-4)	Building	510,218	square ft				
EM	9213	Development/Offices	Building	23,635	square ft				
EM	9401-02	Plating Shop and Maintenance	Building	13,673	square ft				
EM	9418-03	Vault	OSF	1	each				
EM	9703-14	Former Post 3-South Portal (9213 Area)	Building	123	square ft				
EM	9720-44	Shed-Sludge Handling Facility	OSF	1	each				
EM	9720-45	Liquid Organic Waste Facility	OSF	1	each				
EM	9720-60	Solid Storage Facility	Building	13,780	square ft				
EM	9809-01	Waste Storage	OSF	1,406	square ft				
EM	9811-08	Transfer Station, 9811-8	OSF	1	each				
EM	9825-01	Waste Storage	OSF	32,000	cubic ft				
EM	9825-02	Waste Storage	OSF	32,000	cubic ft				
EM	9830-08	Storage Facility	OSF	5,000	square ft				
EM	9830-09	Storage Facility	OSF	5,000	square ft				
EM	9830-10	Storage Facility	OSF	5,000	square ft				
EM	9830-11	Storage Facility	OSF	5,000	square ft				
EM	9830-12	Storage Facility	OSF	5,000	square ft				
EM	9830-13	Storage Facility	OSF	5,000	square ft				
EM	9830-14	Storage Facility	OSF	5,000	square ft				
EM	9840-04	Drum Cleaning Station	Building	312	square ft				
EM	9960-01	Severe Weather Shelter	Building	180	square ft				
EM	9960-02	Severe Weather Shelter	Building	180	square ft				
EM	9960-03	Severe Weather Shelter	Building	180	square ft				
EM	9960-04	Severe Weather Shelter	Building	180	square ft				
EM	9960-05	Severe Weather Shelter	Building	180	square ft				

^{*}Size is shown in square feet unless noted otherwise.

Table 5. Y-12 Facilities and Sites for Surveillance and Maintenance and Environmental Monitoring

Program Owner	Facility Number	Facility Description	Property Type	Size	UOM
EM	9960-06	Severe Weather Shelter	Building	180	square ft
EM	9960-07	Severe Weather Shelter	Building	180	square ft
EM	9960-08	Severe Weather Shelter	Building	180	square ft
EM	9983-CQ	WTSD Sampling Crew Trailer	Trailer	198	square ft
EM	9999-02	Motor Generator (9213 Area)	Building	266	square ft
EM	K400186	S-3 Parking and Storage Area	OSF	157,455	square ft
EM	Y700071	9409-11 Basin	OSF	1	each
EM	Y701068	Chain Link Fence (Rogers Quarry)	OSF	3,600	feet
EM	Y701518	ECRWP Pit Liquid Storage Facility	OSF	89	cubic ft
EM	Y701588	9401-02 Spill Retention Facility	OSF	1	each
EM	Y701664	Chain Link Fence	OSF	4,290	feet
EM	Y701665	Kerr Hollow Fence	OSF	3,775	feet
EM	Y701794	Concrete Storage Pad	OSF	944	square yard
EM	Y701978	9811-08 Basin	OSF	1	each

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